

Set	Items	Description
S1	1301839	LOCK?? OR LOCKING
S2	1756475	FASTEN? OR CLAMP? ? OR HOLDER? ?
S3	87398	LATCH?? OR LATCHING
S4	367399	HOOK OR HOOKS
S5	531450	PIN OR PINS
S6	1858332	HOOKEED OR HOOKING OR CLASP?? OR CLASPING OR CATCH?? OR CAT-CHING OR GRASP?? OR GRASPING
S7	13195801	CLAMP? OR HOLDING OR HELD OR HOLDER? ?
S8	3312186	SPRING? OR SPRUNG
S9	720611	BUTTON? ? OR KNOB OR KNOBS OR NUB OR NUBS
S10	3212590	RAIL OR RAILS OR BAR OR BARS
S11	792279	CROSS?() (MEMBER? ? OR BAR?---? OR PIECE? ?) OR ROD OR RODS OR SHAFT OR SHAFTS OR CROSSBAR? ? OR BATTEN? ? OR BILLET? ? OR - LEVER? ?
S12	26606326	DETACH? OR REMOVE? ? OR REMOVING OR REMOVABLE OR SEPERAT? - OR SEPARABLE OR DISPLACE? OR MOBILE OR RELEASE? ? OR RELEASING OR RELEASABL? OR MOVE? ? OR MOVING OR MOVABLE OR DISCONNECT?
S13	5764001	GUIDE? ? OR GUIDING OR SLIDE? ? OR SLIDING OR SWING? OR PI-VOT? OR AXIAL? OR GLIDE? ? OR GLIDING OR SLIP? ? OR SLIPPED OR SLIPPING
S14	384124	BINDING? ? OR BOOKBINDING? ?
S15	4421968	BINDER? ? OR COVER? ? OR FOLDER? ?
S16	13675137	CASE OR CASES OR HOLDER? ? OR PORTFOLIO? ?
S17	10	(S1 OR S2) (30N) S3 (30N) S4 (30N) S8 (30N) S9 (30N) (S10 - OR S11) (30N) S12
S18	8	S17 NOT PY>2003
S19	6	RD (unique items)
S20	322	(S1 OR S2 OR S3 OR S4 OR S6 OR S7) (30N) S8 (30N) S9 (30N) (S10 OR S11) (30N) S12
S21	102	S20 (30N) (S14 OR S15 OR S16)
S22	45	S21 (30N) S13
S23	38	S22 NOT PY>2003
S24	38	S23 NOT S19
S25	32	RD (unique items)
S26	82	(S1 OR S2 OR S3 OR S4 OR S6 OR S7) (10N) S8 (10N) S9 (30N) (S10 OR S11) (30N) S12 (30N) (S14 OR S15 OR S16)
S27	72	S26 NOT PY>2003
S28	32	S26 (30N) S13
S29	26	S28 NOT PY>2003
S30	26	S29 NOT S19
S31	25	RD (unique items)
File	9:Business & Industry(R)	Jul/1994-2006/Jul 24
	(c) 2006	The Gale Group
File	15:ABI/Inform(R)	1971-2006/Jul 25
	(c) 2006	ProQuest Info&Learning
File	16:Gale Group PROMT(R)	1990-2006/Jul 24
	(c) 2006	The Gale Group
File	20:Dialog Global Reporter	1997-2006/Jul 25
	(c) 2006	Dialog
File	47:Gale Group Magazine DB(TM)	1959-2006/Jul 24
	(c) 2006	The Gale group
File	80:TGG Aerospace/Def.Mkts(R)	1982-2006/Jul 24
	(c) 2006	The Gale Group
File	112:UBM Industry News	1998-2004/Jan 27
	(c) 2004	United Business Media
File	141:Readers Guide	1983-2006/Jun
	(c) 2006	The HW Wilson Co
File	148:Gale Group Trade & Industry DB	1976-2006/Jul 24
	(c)2006	The Gale Group
File	149:TGG Health&Wellness DB(SM)	1976-2006/Jul W2
	(c) 2006	The Gale Group
File	160:Gale Group PROMT(R)	1972-1989
	(c) 1999	The Gale Group
File	192:Industry Trends & Anal.	1997/Jun

(c) 1997 Decision Resources Inc.  
File 275:Gale Group Computer DB(TM) 1983-2006/Jul 24  
(c) 2006 The Gale Group  
File 369:New Scientist 1994-2006/Jul W1  
(c) 2006 Reed Business Information Ltd.  
File 370:Science 1996-1999/Jul W3  
(c) 1999 AAAS  
File 482:Newsweek 2000-2006/Jul 24  
(c) 2006 Newsweek, Inc.  
File 484:Periodical Abs Plustext 1986-2006/Jul W3  
(c) 2006 ProQuest  
File 553:Wilson Bus. Abs. 1982-2006/Jul  
(c) 2006 The HW Wilson Co  
File 563:Key Note Market Res. 1986-2001/Aug 03  
(c) 2001 ICC Online Info. Group  
File 570:Gale Group MARS(R) 1984-2006/Jul 24  
(c) 2006 The Gale Group  
File 609:Bridge World Markets 2000-2001/Oct 01  
(c) 2001 Bridge  
File 621:Gale Group New Prod.Annou.(R) 1985-2006/Jul 24  
(c) 2006 The Gale Group  
File 624:McGraw-Hill Publications 1985-2006/Jul 25  
(c) 2006 McGraw-Hill Co. Inc  
File 635:Business Dateline(R) 1985-2006/Jul 25  
(c) 2006 ProQuest Info&Learning  
File 636:Gale Group Newsletter DB(TM) 1987-2006/Jul 24  
(c) 2006 The Gale Group  
File 646:Consumer Reports 1982-2006/Jul  
(c) 2006 Consumer Union  
File 647:CMP Computer Fulltext 1988-2006/Aug W3  
(c) 2006 CMP Media, LLC  
File 809:Bridge World Markets News 1989-1999/Dec 31  
(c) 1999 Bridge

31/3,K/14 (Item 3 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
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08209879 SUPPLIER NUMBER: 17636369 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Quick-operating fasteners.(Basics of Design Engineering: Fastening & Joining)**

Machine Design, v67, n16, p110(1)

Sep 14, 1995

ISSN: 0024-9114

LANGUAGE: English

RECORD TYPE: Fulltext; Abstract

WORD COUNT: 297

LINE COUNT: 00026

... Used for edge-to-edge applications, it has no parts within the assembly.

Cam-action **fastener** has good resistance to shock and vibration. Quick-disconnect feature can also make or break...

...panels. Receptacle is threaded into a blind or through hole.

Quarter-turn fastener engages locking **spring** in panel. Retainer must be riveted or welded in place. A variety of heads are available.

#### **SPRING LOADED**

Plunger provides end forces for detent or to hold parts in place. Device is installed in the same way as an insert.

#### **PUSH-PULL**

**Button latch** has **hooked lever** which engages a lip on the fixed panel. It is used for quick **latching** in light-load applications.

Pin **spring latch** engages when the conical pin on the movable panel engages **spring** fingers on the fixed section. Finger pressure on the pin unlatches the **fastener** by spreading the retainer- **spring** finger.

#### **LIFT AND TURN**

Compression of the panel to the frame is possible with this **fastener**. **Lever** actuation gives a visual indication of a **locked** or unlocked condition.

#### **MAGNETIC**

Fastener offers the advantage of no **moving** parts to wear. It is used for light loads and where no positive mechanical frame...

31/3,K/17 (Item 6 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
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03723069 SUPPLIER NUMBER: 06878498 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Special-purpose fasteners. (Fastening, Joining & Assembly Reference Issue)**  
Machine Design, v60, n27, p117(9)  
Nov 17, 1988  
ISSN: 0024-9114 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT  
WORD COUNT: 4877 LINE COUNT: 00391

... flat surface on the mating part, or into an indentation or hole which provides further **locking** action.

Plungers are available with various lengths of travel, and end force increases as the...

...for standard and special purposes, such as for use as electrical contacts.

#### QUICK-OPERATING FASTENERS

##### LEVER ACTUATED

Draw-pull, bail-type fastener has good leverage for pulling adjoining sections together. Used...

...to shock and vibration. Quickdisconnect feature can also make or break a circuit.

##### SLIDE ACTION

**Spring** -loaded bolt is mounted internally. Fastener does not compress panel or cover against the frame...

...installed, the fastener can be set to various door thicknesses. Quarter-turn fastener engages locking **spring** in panel. Retainer must be riveted or welded in place. A variety of heads are...

...covers or panels. Receptacle is threaded into a blind or through hole.

##### PUSH-PULL

**Button** latch has hooked **lever** which engages a lip on the fixed panel. It is used for quick latching in light-load applications. Pin-**spring latch** engages when the conical pin on the movable panel engages **spring** fingers on the fixed section. Finger pressure on the pin unlatches the **fastener** by spreading the retainerspring finger.

##### LIFT AND TURN

Compression of the panel to the frame is possible with this **fastener**. **Lever**, as opposed to **knob**, actuation gives a visual indication of a **locked** or unlocked condition.

##### MAGNETIC

**Fastener** offers the advantage of no moving parts to wear. It is used for light loads...

...positive mechanical frame-to-panel connection is required.

##### CABLE AND TUBE CLIPS

One-piece **clamp** has notched tapered ends that index with mounting hole. Adjustable binding strap with release tab...

...a panel edge and has barbs which pierce the electric line passing through it. Purse-**lock** clips are interlocked to secure the wire bundle. Post snaps into a panel hole. Various...

31/3,K/18 (Item 7 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
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02972139 SUPPLIER NUMBER: 04427373 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Specialty fasteners secure PC board.**  
Machine Design, v58, p54(1)  
Sept 11, 1986  
ISSN: 0024-9114 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT  
WORD COUNT: 309 LINE COUNT: 00022

A 3/4-turn **fastener** may replace the lever system used to fasten sliding PC boards to electronic equipment cabinets. Although the **lever** system provides the force needed for connector insert and extract; it is cumbersome and can...

...The cross-pin locks into a detent at the end of its travel and a **spring** under the **fastener**'s head resists any loosening of the 37F from a vibration or shock load. A variety of **fastener** heads such as: slotted head, Phillips head, 2-mm hex head, knurled **knob**, or wing tip is available.

A push/turn **fastener** is also available for securing PC boards. The **fastener** requires a 1/4 turn to open, however, unlike the 37 F, it merely requires a push of the thumb to **lock**. This speeds board replacement during servicing.

The push/turn **fastener** consists of a long stud within the PC board edge that slides in the cabinet...

...stud which has a blade end. A 1/4-turn engages the blade beyond the **spring** steel element of the receptacle.

Both **fasteners** are made by Rexnord, Specialty **Fastener** Div., Hasbrouck Heights, NJ.

Photo: QUICK-TURN **FASTENER**

Photo: Push/turn **fasteners** have long **shafts** within the PC board edges which are engaged in receptacles near the connector.

Photo: MULTI-PC BOARD **FASTENING**

31/3,K/24 (Item 1 from file: 636)  
DIALOG(R)File 636:Gale Group Newsletter DB(TM)  
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05381184 Supplier Number: 91296804 (USE FORMAT 7 FOR FULLTEXT)

**Product Profiles.**

Trailer/Body Builders, pNA

August 1, 2002

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Trade

Word Count: 7312

... Their use eliminates any other hardware beyond a mating screw to complete component assembly.

These **fasteners** can be installed permanently anywhere in the shop or in the field (even after product finish is applied) using a hand- **held** portable tool. Product samples and literature are available. Contact Peter Timpanelli, Atlas Engineering, 1510 St Clair Ave, Kent OH 44240.

No more manual pulling with new pin **release**

Tuthill Transport Technology's new ReycoGranning pneumatic pin **release** eliminates the need to pull slider pins manually. Operating mechanical slider pin pull mechanisms can require as much as 90 pounds or more of force.

This pin **release** 's design applies a dual action-pure moment to the engagement **shaft** . This concept is stronger through the application of pure torque, which minimizes wear and tear...

...system is easy to use. Once the trailer brakes are set, the driver pulls the **button** actuator, disengaging the pins pneumatically. Now the slider can be repositioned safely. Once the slider has been repositioned, push the **button** actuator and the pins are **released** , free to engage into the body **rails** . Built into the system is a safety precaution that automatically engages the pins when the parking brakes are **released** to prevent the operator from driving away with a loose slider.

This pin **release** is compatible with the 86AR-RS1015/RS1035 and 19AR-RS1062 air-ride/ **slider** designs and will become compatible with other **slider** systems soon. Contact Tuthill, 2715 N Airport Commerce, **Springfield** MO 65803 for further details.

Tooling system operates on 'bump-die' principle

XimmiX Heavy Duty...tooling on every job, says the firm. Capital components such as corner posts and tool **holders** are purchased with the initial order. As new jobs are added, these components can be...

Set	Items	Description
S1	585529	LOCK?? OR LOCKING
S2	142699	LATCH?? OR LATCHING
S3	178377	HOOK OR HOOKS
S4	214610	HOOKED OR HOOKING OR CLASP?? OR CLASPING OR CATCH?? OR CAT- CHING OR GRASP?? OR GRASPING
S5	778418	SPRING?
S6	307289	BUTTON? ? OR TRIGGER? ? OR KNOB OR KNOBS OR NUB OR NUBS
S7	679184	RAIL OR RAILS OR BAR OR BARS
S8	4832043	DETACH? OR REMOVE? ? OR REMOVING OR REMOVABLE OR SEPERAT? - OR SEPARABLE OR DISPLACE? OR MOBILE OR RELEASE? ? OR RELEASING OR RELEASABL? OR MOVE? ? OR MOVING OR MOVABLE OR DISCONNECT?
S9	21	S1 AND S2 AND S3 AND S5 AND S6 AND S7 AND S8
S10	0	S9 AND IC=B42F
S11	21	IDPAT S9 (sorted in duplicate/non-duplicate order)
S12	21	IDPAT S9 (primary/non-duplicate records only)
S13	2544518	GUIDE? ? OR GUIDING OR SLIDE? ? OR SLIDING OR SWING? OR PI- VOT? OR AXIAL? OR GLIDE? ? OR GLIDING OR SLIP? ? OR SLIPPED OR SLIPPING
S14	1838779	CROSS?() (MEMBER? ? OR BAR? ? OR PIECE? ?) OR ROD OR RODS OR SHAFT OR SHAFTS OR CROSSBAR? ? OR BATTEN? ? OR BILLET? ? OR - LEVER? ?
S15	5297	(S1 OR S2 OR S3 OR S4) AND S5 AND S6 AND (S7 OR S14) AND S8
S16	7	S15 AND IC=B42F
S17	7	S16 NOT S12
S18	7	IDPAT (sorted in duplicate/non-duplicate order)
S19	7	IDPAT (primary/non-duplicate records only)
S20	3493	S15 AND S13
S21	1204370	BINDER? ? OR NOTEBOOK? ? OR COVER? ? OR FOLDER? ? OR NOTEP- AD? ? OR NOTE() (BOOK? ? OR PAD? ?)
S22	163093	BINDING? ? OR BOOKBINDING? ?
S23	421	S20 AND (S21 OR S22)
S24	1753	(S1 OR S2 OR S3 OR S4) (10N) S5 (10N) S6 AND (S7 OR S14) A- ND S8
S25	194	S24 AND (S21 OR S22)
S26	125	S25 AND S13
S27	125	IDPAT (sorted in duplicate/non-duplicate order)
S28	125	IDPAT (primary/non-duplicate records only)

? show files

File 347:JAPIO Dec 1976-2005/Dec(Updated 060404)  
(c) 2006 JPO & JAPIO

File 350:Derwent WPIX 1963-2006/UD=200646  
(c) 2006 The Thomson Corporation

12/5/1 (Item 1 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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0015847972 - Drawing available

WPI ACC NO: 2006-045684/

XRPX Acc No: N2006-039196

**Automatic sliding mechanism for cellular phone, has latch recovery spring to push latch towards rail device to lock sliding frame, and release button to push latch away from lock holes to unlock frame**

Patent Assignee: WU K (WUKK-I)

Inventor: WU K

**Patent Family** (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
US 20050277449	A1	20051215	US 200555656	A	20050211	200605 B

Priority Applications (no., kind, date): TW 2004209318 U 20040611

#### Patent Details

Number	Kind	Lan	Pg	Dwg	Filing	Notes
US 20050277449	A1	EN	10	6		

#### Alerting Abstract US A1

NOVELTY - A **rail** device installed between a base and a sliding frame, consists of a stop wedge to limit the sliding range of a slide **rail**. An actuator has a **latch** recovery **spring** that pushes a **latch** towards the **rail** device and **hooks** with base to **lock** the frame. A **release button** pushes the **latch** away from a **lock** hole of frame to unlock the frame.

USE - For panel-sliding type cellular phone with large screen color display.

ADVANTAGE - Solves wiggling problem and improves stability of the automatic sliding mechanism by elongating fixed **rail** and **rail** device. Avoids accidental opening of sliding frame by the **spring** and **button** arrangement of actuators. Prevents sliding **rail** from leaving the fixed **rail** by providing the stop wedge.

DESCRIPTION OF DRAWINGS - The figure shows a perspective view of the cellular phone in open state of display screen panel.

700 cellular phone

710 fixed portion

720 sliding portion

730 actual **release button**

**Title Terms/Index Terms/Additional Words:** AUTOMATIC; SLIDE; MECHANISM; CELLULAR; TELEPHONE; **LATCH**; RECOVER; **SPRING**; PUSH; **RAIL**; DEVICE; **LOCK**; FRAME; **RELEASE**; **BUTTON**; HOLE; UNLOCK

#### Class Codes

International Classification (Main): H04B-001/08

(Additional/Secondary): E05D-015/06, H04M-001/00

US Classification, Issued: 455575100, 455347000

File Segment: EngPI; EPI;

DWPI Class: W01; Q47

Manual Codes (EPI/S-X): W01-C01A3A; W01-C01D3C



12/5/2 (Item 2 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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0014976406 - Drawing available

WPI ACC NO: 2005-324243/

XRPX Acc No: N2005-265104

**Lock of latch unit for shutters, has click button formed with longitudinally extended blind hole, having hook like projection cooperating with cutout in hinge, pressed by compression spring pressed against back stop**

Patent Assignee: KOVINOPLASTIKA LOZ IND KOVINSKIH PLASTIC (KOVI-N)

Inventor: VUKOVIC A

**Patent Family** (1 patents, 31 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
EP 1531223	A1	20050518	EP 2003468009	A	20031112	200534 B

Priority Applications (no., kind, date): EP 2003468009 A 20031112

#### Patent Details

Number	Kind	Lan	Pg	Dwg	Filing	Notes
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EP 1531223	A1	EN	6	4		
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Regional Designated States, Original: AL AT BE BG CH CY CZ DE DK EE ES FI  
FR GB GR HU IE IT LI LT LU LV MC MK NL PT RO SE SI SK TR

#### Alerting Abstract EP A1

NOVELTY - A click **button** (2) is arranged between the legs (5,6) of the forked section of a **latch** handle (1) and **moved** longitudinally. The click **button** which is formed with a longitudinally extended blind hole (13), has **hook** like projection (18) which cooperates with a corresponding cutout (19) in a hinge (4). The click **button** is pressed by a compression **spring** (3) which is pressed against a back stop of the **latch** handle.

USE - For **latch** unit for shutters.

ADVANTAGE - Reduces usage of external components. Facilitates assembly and installation of the **lock** to the shutter.

DESCRIPTION OF DRAWINGS - The figure shows an exploded perspective view of a **lock**.

- 1 **latch** handle
- 2 click **button**
- 3 compression **spring**
- 4 hinge
- 5,6 legs
- 13 blind hole
- 18 projection
- 19 cut out

**Title Terms/Index Terms/Additional Words:** **LOCK** ; **LATCH** ; UNIT; SHUTTER; CLICK; **BUTTON** ; FORMING; LONGITUDE; EXTEND; BLIND; HOLE; **HOOK** ; PROJECT ; COOPERATE; HINGE; PRESS; COMPRESS; **SPRING** ; BACK; STOP

#### Class Codes

International Classification (Main): E05C-009/08

(Additional/Secondary): E05B-013/00, E05B-013/10

File Segment: EngPI; ;

DWPI Class: Q47

12/5/4 (Item 4 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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0013756537 - Drawing available

WPI ACC NO: 2003-855489/

XRPX Acc No: N2003-683257

Locking system for portable safe has an internal locking mechanism with two components and a spring and a shaped lock housing on the door to take a locking system

Patent Assignee: SHYH RU METALLIC IND CORP (SHYH-N)

Inventor: CHANG W Y

Patent Family (2 patents, 2 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
DE 20200475	U1	20020411	DE 20200475	U	20020114	200380 B
US 6581422	B1	20030624	US 200261248	A	20020204	200380 NCE

Priority Applications (no., kind, date): US 200261248 A 20020204; DE 20200475 U 20020114

#### Patent Details

Number	Kind	Lan	Pg	Dwg	Filing	Notes
DE 20200475	U1	DE	15	6		

Alerting Abstract DE U1

NOVELTY - A locking system for a portable safe has an integral lock with two shaped levers and a spring and with a lock housing (321) with raised sides and shaped grips (323) to secure a locking plate (34). The inside of the safe has a catch to secure one side of the door, with the other side secured by the locking system.

USE - Portable safe

ADVANTAGE - A cost effective construction with a minimum of components

DESCRIPTION OF DRAWINGS - The drawing shows a door for a portable safe.

3Door of safe

321Raised sides of lock housing

323Grip tabs for locking plate

34Locking plate

Title Terms/Index Terms/Additional Words: LOCK ; SYSTEM; PORTABLE; SAFE; INTERNAL; MECHANISM; TWO; COMPONENT; SPRING ; SHAPE; HOUSING; DOOR

#### Class Codes

International Classification (Main): E05B-065/52, E05B-073/00

(Additional/Secondary): E04C-003/16

US Classification, Issued: 070070000, 070071000, 070159000, 292124000, 292222000, 292224000

File Segment: EngPI; ;

DWPI Class: Q44; Q47

12/5/5 (Item 5 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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0013049036 - Drawing available  
WPI ACC NO: 2003-128482/200312  
Related WPI Acc No: 2002-303545  
XRPX Acc No: N2003-102060

**Child seat anchor connector used in an automobile, has latch mechanism, connector mechanism and slot for securely fastening to anchor bar and securely fixing child seat to vehicle**

Patent Assignee: GALBREATH J A (GALB-I)

Inventor: GALBREATH J A

**Patent Family** (2 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
US 20020149243	A1	20021017	US 2000231593	P	20000911	200312 B
			US 2001950550	A	20010911	
US 6494535	B2	20021217	US 2001950550	A	20010911	200321 E

Priority Applications (no., kind, date): US 2000231593 P 20000911; US 2001950550 A 20010911

#### Patent Details

Number	Kind	Lan	Pg.	Dwg	Filing	Notes
US 20020149243	A1	EN	19	14	Related to	Provisional US 2000231593

#### Alerting Abstract US A1

NOVELTY - The child seat anchor connector (10) has a **latch** mechanism located at the first end, a connector mechanism located at the second end, and a slot on one side of the first end for securely fastening to an anchor **bar** and securely fixing a child seat to a vehicle.

DESCRIPTION - The **latch** mechanism captures and retains the anchor **bar** within the connector. The connector mechanism attaches the connector to a child safety seat.

USE - For connecting a child safety seat to the anchor **bar** installed in an automobile.

ADVANTAGE - Easy, quick and intuitive to use, yet safe and secure. Needs simple push-in or pull-out motion to engage and disengage anchor **bar**. Does not need hooking or unhooking motions. Provides automatic engagement onto anchor **bar** without needing **buttons** to be pushed. Quick and easy to **release**, in which consumers can easily see and reach **release button** because it's not hidden by seat cushions. Has beveled anchor end that guides connector into place over anchor **bar**, making it easy to connect child seat to anchor **bar**. **Releases** under tension more conveniently than **hook** fastener, in which webbing tension does not have to be **released** first. Has optional additional **lock** on connector's anchor end for disabling push- **button release**, providing extra measure of security. Forms basis for rigid-link child seat connection system, in which child seat is rigidly or semi-rigidly connected to anchor **bar** rather than using webbing at one end of connector.

DESCRIPTION OF DRAWINGS - The figure shows the overall view of the child seat anchor connector installed on a rear automobile seat.

10 Child seat anchor connector

**Title Terms/Index Terms/Additional Words:** CHILD; SEAT; ANCHOR; CONNECT; AUTOMOBILE; **LATCH**; MECHANISM; SLOT; SECURE; FASTEN; **BAR**; FIX; VEHICLE

#### Class Codes

International Classification (Main): B60N-002/28  
US Classification, Issued: 297253000, 297253000, 297250100

File Segment: EngPI; ;  
DWPI Class: Q14

12/5/6 (Item 6 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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0011152284 - Drawing available

WPI ACC NO: 2002-089446/200212

Related WPI Acc No: 2003-448480; 2003-721175

XRPX Acc No: N2002-065940

**Snap locking buckle comprises two identical assemblies configured to releasably interlock when brought together to provide a reliable connection**

Patent Assignee: CAPITAL SAFETY INC (CAPI-N); NOVAK P J (NOVA-I)

Inventor: AUSTIN B J; NOVAK P J

**Patent Family** (2 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
US 20020002761	A1	20020110	US 2000202413	P	20000508	200212 B
			US 2001850419	A	20010507	
US 6484372	B2	20021126	US 2001850419	A	20010507	200281 E

Priority Applications (no., kind, date): US 2000202413 P 20000508; US 2001850419 A 20010507

#### Patent Details

Number	Kind	Lan	Pg	Dwg	Filing	Notes
US 20020002761	A1	EN	6	2	Related to Provisional US 2000202413	

#### Alerting Abstract US A1

NOVELTY - A snap- **locking** buckle (10) comprises identical first and second halves (101,102), each comprising a keeper plate (120) with a projecting **hook** (122) sandwiched between two outer plates (110). **Spring** loaded pivoting **latches** are provided with shoulders (132) which engage the keepers when the two halves are brought together. The buckle may be **released** by rotating the **nubs** (137) simultaneously. Strap engaging **bars** (160) are provided for the attachment of straps.

USE - For **releasably** joining two strap ends together.

ADVANTAGE - Provides a buckle which is reliable, easily operated, and inexpensive to manufacture.

DESCRIPTION OF DRAWINGS - The drawing shows a top view of the two buckle halves.

- 10 Snap- **locking** buckle
- 101,102 First and second halves
- 110 Outer plates(120) Keeper plate
- 122 Projecting **hook**
- 132 Shoulders
- 137 **Nubs**
- 160 Strap engaging **bars**.

**Title Terms/Index Terms/Additional Words:** SNAP; **LOCK** ; BUCKLE; COMPRISE; TWO; IDENTICAL; ASSEMBLE; CONFIGURATION; **RELEASE** ; INTERLOCKING; RELIABILITY; CONNECT

#### Class Codes

International Classification (Main): A44B-011/00, F16B-011/00

US Classification, Issued: 024312000, 024265BC0, 024265EC0, 024265CD0, 024598500, 024582130, 024312000, 024587120, 024573110

File Segment: EngPI; ;

DWPI Class: P23; Q61

12/5/7 (Item 7 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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0011053861 - Drawing available

WPI ACC NO: 2001-390133/

XRPX Acc No: N2001-287034

**Cooking pan with detachable handle in form of bar with top and bottom plates and sprung locking element to fasten hook in hole in lug**

Patent Assignee: CRISTEL (CRIS-N); DJA DODANE JEAN & ASSOCIES DJA CRISTEL (DJAD-N); DODANE P (DODA-I)

Inventor: DODANE P

**Patent Family** (15 patents, 93 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
WO 2001043611	A1	20010621	WO 2000FR3501	A	20001213	200141 B
FR 2802074	A1	20010615	FR 199915652	A	19991213	200142 E
AU 200121846	A	20010625	AU 200121846	A	20001213	200162 E
EP 1237453	A1	20020911	EP 2000985421	A	20001213	200267 E
			WO 2000FR3501	A	20001213	
US 20020179618	A1	20021205	WO 2000FR3501	A	20001213	200301 E
			US 2002149995	A	20020611	
KR 2002067543	A	20020822	KR 2002707542	A	20020612	200310 E
JP 2003516791	W	20030520	WO 2000FR3501	A	20001213	200334 E
			JP 2001544556	A	20001213	
CN 1409617	A	20030409	CN 2000817004	A	20001213	200345 E
EP 1237453	B1	20040102	EP 2000985421	A	20001213	200406 E
			WO 2000FR3501	A	20001213	
DE 60007555	E	20040205	DE 60007555	A	20001213	200418 E
			EP 2000985421	A	20001213	
			WO 2000FR3501	A	20001213	
US 6708373	B2	20040323	WO 2000FR3501	A	20001213	200421 E
			US 2002149995	A	20020611	
ES 2213637	T3	20040901	EP 2000985421	A	20001213	200458 E
AU 778473	B2	20041209	AU 200121846	A	20001213	200508 E
DE 60007555	T2	20050602	DE 60007555	A	20001213	200537 E
			EP 2000985421	A	20001213	
			WO 2000FR3501	A	20001213	
CN 1158041	C	20040721	CN 2000817004	A	20001213	200612 E

Priority Applications (no., kind, date): FR 199915652 A 19991213

#### Patent Details

Number	Kind	Lan	Pg	Dwg	Filing	Notes
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WO 2001043611	A1	FR	18	9		
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National Designated States,Original: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

Regional Designated States,Original: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZW

AU 200121846	A	EN			Based on OPI patent	WO 2001043611
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EP 1237453	A1	FR			PCT Application	WO 2000FR3501
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Based on OPI patent WO 2001043611

Regional Designated States,Original: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI TR

US 20020179618	A1	EN			PCT Application	WO 2000FR3501
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JP 2003516791	W	JA	21		PCT Application	WO 2000FR3501
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Based on OPI patent WO 2001043611

EP 1237453	B1	FR			PCT Application	WO 2000FR3501
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Based on OPI patent WO 2001043611

Regional Designated States,Original: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DE 60007555	E	DE				
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Application EP 2000985421

PCT Application WO 2000FR3501

US 6708373	B2 EN	Based on OPI patent EP 1237453 Based on OPI patent WO 2001043611 PCT Application WO 2000FR3501
ES 2213637	T3 ES	Based on OPI patent WO 2001043611 Application EP 2000985421
AU 778473	B2 EN	Based on OPI patent EP 1237453 Previously issued patent AU 200121846
DE 60007555	T2 DE	Based on OPI patent WO 2001043611 Application EP 2000985421 PCT Application WO 2000FR3501 Based on OPI patent EP 1237453 Based on OPI patent WO 2001043611

**Alerting Abstract WO A1**

NOVELTY - A **detachable** handle (10) for a cooking pan (4), designed to engage with a hole (5) in a lug (2) projecting from the edge of the pan, consists of a **bar** (11) with a hooked end to be inserted in the hole from above, sandwiched between upper and lower plates (12, 13). Between the forward inner faces of the two plates the **bar** has an oblong hole (25) for a **spring**-loaded slider (24) with a **lock** (23) for the lug and **bar**, and a pusher (22) to disengage the **lock**. The slider **spring** is located in a cavity (26, 27) in the forward end of the two plates.

USE - **Detachable** handle for cooking pan.

ADVANTAGE - Ensures reliable engagement of handle with pan, especially suitable for elderly or handicapped person.

DESCRIPTION OF DRAWINGS - The drawing shows a cross-section of the forward end of the handle and pan lug in side view.

2 Lug  
4 Pan  
5 Hole  
10 Handle  
11 **Bar**  
12, 13 Upper and lower plates  
22 Pusher  
23 **Lock**  
24 Slider  
25 Oblong hole  
26, 27 Cavity

**Title Terms/Index Terms/Additional Words:** COOK; PAN; **DETACH** ; HANDLE; FORM ; **BAR** ; TOP; BOTTOM; PLATE; **SPRING** ; **LOCK** ; ELEMENT; FASTEN; **HOOK** ; HOLE; LUG

**Class Codes**

International Classification (Main): A47J-036/34, A47J-045/00, A47J-045/07, B65D-025/10

(Additional/Secondary): A45C-013/22, B65D-053/00, B65D-081/24

US Classification, Issued: 220759000, 016425000, 294034000, 294031100, 016425000, 016422000, 016DIG

File Segment: EngPI; ;

DWPI Class: P24; P28; Q32; Q33; Q34

12/5/8 (Item 8 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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0010835065 - Drawing available

WPI ACC NO: 2001-452835/

XRPX Acc No: N2001-335253

Locking catch for drawer support rails has a sprung tag fitted to the intermediate rail and locking onto a fixed stop on the outer rail and with an automatic release when the drawer is pushed inwards

Patent Assignee: CHEN K (CHEN-I); KING SLIDE WORKS CO LTD (KING-N); LIANG H (LIAN-I); WANG C (WANG-I)

Inventor: CHEN K; LIANG H; WANG C

Patent Family (3 patents, 2 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
DE 20106080	U1	20010628	DE 20106080	U	20010406	200149 B
US 20020089272	A1	20020711	US 2001820978	A	20010330	200248 E
US 6464311	B2	20021015	US 2001820978	A	20010330	200271 E

Priority Applications (no., kind, date): TW 2001200190 U 20010105

#### Patent Details

Number	Kind	Lan	Pg	Dwg	Filing	Notes
DE 20106080	U1	DE	22	9		

#### Alerting Abstract DE U1

NOVELTY - A locking catch for a three part support rail system for a drawer provides a stable grip for the fully extended setting and is released simply by pushing the drawer inwards. The catch comprises a sprung tag (60) fixed to the outer side of the intermediate rail (20) and with a profiled nose to latch onto a stop (50, 51) punched into the inside of the outer rail (31) that is fitted to the frame of the furniture item. The free end of the catch has a hook profile (62) that extends through a gap in the intermediate support rail and is engaged by a profile (11) in the inner support rail (10) when the drawer is pushed back.

USE - Extending drawer, keyboard table for computer desk

ADVANTAGE - Automatically provides a stable support for the fully extended position and is released when pushed back

DESCRIPTION OF DRAWINGS - The drawing shows an exploded view of the drawer mechanism.

30 Outer support rail  
50, 51 Stop in outer rail  
20 Intermediate support rail  
60 Sprung tag  
61 Profiled nose of sprung tag  
621 Release profile for sprung tag  
10 Inner rail

Title Terms/Index Terms/Additional Words: LOCK ; CATCH; DRAWER; SUPPORT; RAIL ; SPRING ; TAG; FIT; INTERMEDIATE; FIX; STOP; OUTER; AUTOMATIC; RELEASE ; PUSH; INWARD

#### Class Codes

International Classification (Main): A47B-088/00, A47B-088/16, F16B-007/00  
(Additional/Secondary): F16B-001/02

US Classification, Issued: 312333000, 312334440, 312334460, 312333000

File Segment: EngPI; ;

DWPI Class: P25; Q61

12/5/10 (Item 10 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2006 The Thomson Corporation. All rts. reserv.

0009922518 - Drawing available  
WPI ACC NO: 2000-222718/200019  
XRPX Acc No: N2000-166786

**A retractable handle locking device for suitcases comprises telescopic side members the inner sliding members connected by a cross member having a locking button moving a pivoting plunger in or out of holes in the outer member**

Patent Assignee: TING CHENG CO LTD (TING-N)  
Inventor: LU L

**Patent Family** (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
US 6026542	A	20000222	US 199840345	A	19980318	200019 B

Priority Applications (no., kind, date): US 199840345 A 19980318

#### Patent Details

Number	Kind	Lan	Pg	Dwg	Filing	Notes
US 6026542	A	EN	7	4		

#### Alerting Abstract US A

NOVELTY - A **locking** device for a handle comprising two inner tubes (5) slidable in sleeves (7) connected at their top end by a handle formed by two part cross tube (21) inside of which is **spring** loaded control member (3) having central **button** (31) to act on push rods (4) having end block (42) for pivoting crank (665) operating in slot (671) provided in **locking** plunger (67) pivoting the cranks in one direction about pivot pins (664) drawing the **spring** loaded **locking** plungers backwards out of their **locking** position in one of a series of slots (71) in the sleeve allowing vertical movement of the inner tube within the sleeve.

USE - A retractable handle fitted to a suit case to ease carrying.

ADVANTAGE - Overcomes problem experienced in prior art complex sliding wedge actuated **locking** plungers which can tilt and fail to withdraw from the **locking** apertures.

DESCRIPTION OF DRAWINGS - The drawing shows a front part sectioned view of the handle

- 3 cross member
- 4 push rod
- 5 inner tube
- 7 outer sleeve
- 21 cross tube
- 31 control member
- 42 rod end blocks
- 67 lockign plunger
- 664 crank pivot pin
- 665 crank
- 671 slots in **locking** plunger

**Title Terms/Index Terms/Additional Words:** RETRACT; HANDLE; **LOCK** ; DEVICE; SUITCASE; COMPRISE; TELESCOPE; SIDE; MEMBER; INNER; SLIDE; CONNECT; CROSS ; **BUTTON** ; **MOVE** ; PIVOT; PLUNGE; HOLE; OUTER

#### Class Codes

International Classification (Main): A47B-095/02  
US Classification, Issued: 016113100

File Segment: EngPI; ;  
DWPI Class: P25



12/5/11 (Item 11 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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0009205862 - Drawing available

WPI ACC NO: 1999-130877/199911

XRPX Acc No: N1999-095302

**Cabinet draw lock - has latch with clutch pivotally engaging latch bar that is kept at preset angle by spring with latch hook of closing drawer able to turn while clutch and sliding block remain still**

Patent Assignee: WEN C (WENC-I)

Inventor: WEN C

**Patent Family** (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
US 5862689	A	19990126	US 1997949895	A	19971014	199911 B

Priority Applications (no., kind, date): US 1997949895 A 19971014

#### Patent Details

Number	Kind	Lan	Pg	Dwg	Filing	Notes
US 5862689	A	EN	9	6		

#### Alerting Abstract US A

The apparatus has a key-receiving cylinder (1) which engages a **trigger bar** (2) that in turn engages a fixing block (3) located with a [-shaped sliding block (4) engaging the back end of the **trigger bar** and being moveable transversely in the fixing block. A **latch hook** (6) fixed to a drawer (7) has a hooking slot (61) engaged by a **latching** system which has an elongated **latch bar** (81) normal to the **moving** direction of the sliding block that has a number of **latch** openings (811) and two lateral edges, one engaged with a pivotal spindle (812) that has an extended top and bottom end and the other having a second aperture in a top portion.

The top end of the spindle engages the fixing block and a clutch (82) located above the **latch bar** has a spindle opening to house the top end of the spindle, an upward strut (821) spaced from the spindle opening engageable with the sliding block and a downward stud spaced from the upward strut which engages a **spring** (83) that also engages the second aperture of the sliding block. The **latch hook** is able to **move** the **latch bar** to turn about the spindle without **moving** the sliding block and the clutch.

ADVANTAGE - Allows an opening drawer to be closed and **locked** when the cabinet is at **locking** condition, preventing damage to the **lock** mechanism.

**Title Terms/Index Terms/Additional Words:** CABINET; DRAW; **LOCK** ; **LATCH** ; CLUTCH; PIVOT; ENGAGE; **BAR** ; KEEP; PRESET; ANGLE; **SPRING** ; **HOOK** ; CLOSE; DRAWER; ABLE; TURN; SLIDE; BLOCK; REMAINING; STILL

#### Class Codes

International Classification (Main): E05B-065/46

US Classification, Issued: 070085000, 312219000, 292DIG

File Segment: EngPI; ;

DWPI Class: Q47

12/5/12 (Item 12 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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0009087699 - Drawing available

WPI ACC NO: 1999-006227/

XRPX Acc No: N1999-005001

**Sickle like lock for sliding door in e.g. house, bathroom, toilet, study room, private room - has oscillating body with arm which latches to concave peripheral edge of scythe whose tip is made to engage to latching piece of latching metal fixture, when door is closed**

Patent Assignee: HINAKA SEISAKUSHO KK (HINA-N)

Inventor: FUJIMOTO H; GOTO K

**Patent Family** (2 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
JP 10280769	A	19981020	JP 1997102471	A	19970404	199901 B
JP 3790599	B2	20060628	JP 1997102471	A	19970404	200646 E

Priority Applications (no., kind, date): JP 1997102471 A 19970404

#### Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
JP 10280769	A	JA	14	8	
JP 3790599	B2	JA	17		Previously issued patent JP 10280769

#### Alerting Abstract JP A

The **lock** has a **trigger** (9), operation piece (10) and a scythe which are built inside a **lock** case (3). The scythe is supported to an axial support (5). A **spring** (11) which energises the scythe to a forward or backward direction is provided within a reference line (L).

When the door is closed, the **trigger** retreats and the operation piece turns the scythe forward through the **spring** to connect its tip to the **latching** piece (8) of a **latching** metal fixture (7) provided in the doorframe body (2). At this point, the arm piece (17) of an oscillating body engages to the concave peripheral edge of the scythe. A weight (16) is provided on the lower side of the arm piece of the oscillating body.

**ADVANTAGE** - Light force is needed to open door. Prevents door from bouncing. **Locks** door by simple operation. Ensures automatic **release** of **lock** when door is opened. Enables adjusting attachment position of **latching** metal fixture corresponding to wear and tear of roller and **rail**

**Title Terms/Index Terms/Additional Words:** SICKLE; **LOCK** ; SLIDE; DOOR; HOUSE; BATHROOM; TOILET; STUDY; ROOM; PRIVATE; OSCILLATING; BODY; ARM; **LATCH** ; CONCAVE; PERIPHERAL; EDGE; SCYTHE; TIP; MADE; ENGAGE; PIECE; METAL; FIX; CLOSE

#### Class Codes

International Classification (Main): E05B-065/08

International Classification (+ Attributes)

IPC + Level Value Position Status Version

E05B-0065/08 A I F B 20060101

E05C-0003/02 A I L B 20060101

E05C-0003/00 C I L B 20060101

File Segment: EngPI; ;

DWPI Class: Q47

12/5/13 (Item 13 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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0008887662 - Drawing available

WPI ACC NO: 1998-436247/

XRPX Acc No: N1998-339922

**Fastening device for computer case - includes pair of fastening latches which are integrally formed with button operated elastic member, and biased to rotate along opposite direction**

Patent Assignee: SAMSUNG ELECTRONICS CO LTD (SMSU)

Inventor: LEE Y; OH S; PARK S

**Patent Family** (2 patents, 2 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
US 5785398	A	19980728	US 1996612790	A	19960311	199837 B
KR 163312	B1	19981201	KR 19954184	A	19950228	200032 E

Priority Applications (no., kind, date): KR 19954184 A 19950228; KR 19954184 A 19950310

#### Patent Details

Number	Kind	Lan	Pg	Dwg	Filing	Notes
US 5785398	A	EN	8	5		

#### Alerting Abstract US A

The device includes a front panel with left and right sides. A main chassis is divided by a pair of apertures.

A pair of fastening **latches** is rotatably mounted on the right and left sides of the front panel. Each fastening **latches** are integrally formed with a **button** operated elastic member, which are biased to rotate along opposite direction.

ADVANTAGE - Prevents breakage due to repeated use. Makes **detachment** easier. Prevents **springs** from being excessively compressed.

**Title Terms/Index Terms/Additional Words:** FASTEN; DEVICE; COMPUTER; CASE; PAIR; **LATCH** ; INTEGRAL; FORMING; **BUTTON** ; OPERATE; ELASTIC; MEMBER; BIAS; ROTATING; OPPOSED; DIRECTION

#### Class Codes

International Classification (Main): H01L-023/04, H05K-005/00

US Classification, Issued: 312223200, 312265600, 292128000, 292DIG

File Segment: EPI;

DWPI Class: T01; V04

Manual Codes (EPI/S-X): T01-L02C; V04-S09

12/5/14 (Item 14 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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0008024507 - Drawing available

WPI ACC NO: 1997-117878/

XRPX Acc No: N1997-097143

**Privacy lockset for door - comprises caliper spring responsive to axial movement of pushbutton for grasping teeth provided on plunger bar to axially move plunger bar**

Patent Assignee: SCHLAGE LOCK CO (SCHL-N)

Inventor: CORDLE W H

**Patent Family** (1 patents, 1 countries)

Patent

Application

Number	Kind	Date	Number	Kind	Date	Update
US 5598726	A	19970204	US 1996622909	A	19960329	199711 B

Priority Applications (no., kind, date): US 1996622909 A 19960329

#### Patent Details

Number	Kind	Lan	Pg	Dwg	Filing	Notes
US 5598726	A	EN	17	12		

#### Alerting Abstract US A

The lockset comprises inside and outside **knobs** mounted on inside and outside spindles which are in turn rotatably supported in inside and outside chassis. Rotation of either **knob** causes rotation of a rectangular driver spindle to drive a **latch** operating assembly which retracts a latchbolt. **Locking** may be accomplished only by pressing a push **button** located in the inside **knob**. The push **button** drives a caliper **spring** to engage and axially **move** a plunger **bar** alternatively a **hook spring** carried on the push **button** engages teeth on the plunger **bar**. Axial movement of the plunger **bar** actuates a clutch mechanism to **disconnect** the outside **knob** from the driver spindle and **lock** the outside **knob** to the outside chassis to prevent rotation of the **knob**.

Unlocking is accomplished by rotating the plunger **bar** relative to a coupler having a **spring** on it for engaging notches on the plunger **bar**. The unlocking may be accomplished with a key from the outside or by turning the inside **knob**. Alternatively unlocking is accomplished from the inside by turning a **knob** to rotate the plunger **bar** and from the outside unlocking is accomplished by turning a key to rotate the coupler.

ADVANTAGE - May be mounted on doors of various thicknesses without any adjustment prior to mounting.

**Title Terms/Index Terms/Additional Words:** PRIVATE; DOOR; COMPRISE; CALIPER; **SPRING** ; RESPOND; AXIS; MOVEMENT; PUSHBUTTON; GRASP; TOOTH; PLUNGE; **BAR** ; **MOVE**

#### Class Codes

International Classification (Main): G05G-005/00

US Classification, Issued: 070224000, 070461000, 070476000, 292336300

File Segment: EPI;

DWPI Class: X25

Manual Codes (EPI/S-X): X25-U01

12/5/15 (Item 15 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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0006549407 - Drawing available

WPI ACC NO: 1993-359528/

XRPX Acc No: N1993-277600

**Drawer lock mechanism including push button latch - includes latch hook at rear end of drawers, which is receivable through corresponding apertures in lock bar at rear of cabinet and which vertically reciprocates**

Patent Assignee: SNAP-ON TOOLS CORP (SNAP-N)

Inventor: SLIVON G R

**Patent Family** (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
US 5257860	A	19931102	US 1992938392	A	19920831	199345 B

Priority Applications (no., kind, date): US 1992938392 A 19920831

#### Patent Details

Number	Kind	Lan	Pg	Dwg	Filing	Notes
US 5257860	A	EN	9	7		

#### Alerting Abstract US A

In a cabinet having a drawer **movable** between open and closed conditions, the improvement comprises a **latch** member carried by the cabinet and **movable** among first and second and third positions. The **latch** member in its first and second positions is engageable with the drawer in its closed condition for preventing opening. The **latch** member in its third position accommodates free movement of the drawer between its open and closed conditions.

There is first actuator carried by the cabinet and operable for **moving** the **latch** member between its first and second positions. There is second actuator carried by the cabinet and operable for **moving** the **latch** member between its second and third position.

ADVANTAGE - Provides a **locking** and **latching** mechanism which permits a plurality of drawers to be simultaneously **locked** and unlocked but prevents an unlocked drawer from opening until it has been unlatched.

**Title Terms/Index Terms/Additional Words:** DRAWER; **LOCK** ; MECHANISM; PUSH; **BUTTON** ; **LATCH** ; **HOOK** ; REAR; END; RECEIVE; THROUGH; CORRESPOND; APERTURE; **BAR** ; CABINET; VERTICAL; RECIPROCAL

#### Class Codes

International Classification (Main): E05B-065/46

US Classification, Issued: 312218000, 312219000, 070078000

File Segment: EngPI; ;

DWPI Class: Q47

12/5/17 (Item 17 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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0006356353 - Drawing available  
WPI ACC NO: 1993-154349/199319  
XRPX Acc No: N1993-118074

**Jet engine lock with double bolts - has first hook shaped closing round locking bar and connected to second detachable catch stops turning push button and sensor**

Patent Assignee: MESSIER BUGATTI SA (MESS)  
Inventor: ROUZAUD D

**Patent Family** (7 patents, 9 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
EP 541422	A1	19930512	EP 1992402929	A	19921028	199319 B
BR 199204302	A	19930511	BR 19924302	A	19921105	199323 E
FR 2683254	A1	19930507	FR 199113681	A	19911106	199331 E
EP 541422	B1	19940817	EP 1992402929	A	19921028	199432 E
US 5344197	A	19940906	US 1992968403	A	19921029	199435 E
DE 69200333	E	19940922	DE 69200333	A	19921028	199437 E
			EP 1992402929	A	19921028	
IL 103578	A	19950315	IL 103578	A	19921028	199517 E

Priority Applications (no., kind, date): FR 199113681 A 19911106

#### Patent Details

Number	Kind	Lan	Pg	Dwg	Filing	Notes
EP 541422	A1	FR	7	9		
Regional Designated States, Original: DE ES GB IT SE						
BR 199204302	A	PT				
EP 541422	B1	FR	9	9		
Regional Designated States, Original: DE ES GB IT SE						
US 5344197	A	EN	6	9		
DE 69200333	E	DE				Application EP 1992402929
						Based on OPI patent EP 541422
IL 103578	A	EN				

#### Alerting Abstract EP A1

The **lock** has two bolts, the first (203) being **hook** shaped (103) and cantilevered from a turning axis (102). When closed, the bolt **hooks** round a **locking bar** (16), a **detachable** catch (122) stopping it turning. A second bolt (205) slides in the casing (101) between open and closed positions.

Both bolts are connected so that the first one's **hook** can only **move** after the sliding part is withdrawn. Parallel **locking bars** (16,18) are offset, perpendicular to the **spring** loaded sliding part (105), and attached to a push **button** (132) with return **spring**. A sensor detects open and closed positions.

USE/ADVANTAGE - High degree of security, suitable for **locking** cover panels of aircraft jet engines.

#### Equivalent Alerting Abstract US A

The **locking** device comprised a box mounted on a first structure, and a primary **latch** implemented in the form of a **hook** cantilevered out from a tilt between an open position and a closed position in which the **hook** supports a first catch member mounted on a second structure to be **locked** with the first structure. There is a retractable **locking** member disposed to oppose tilting of the **hook** when the **hook** is in its closed position by a **locking** portion of the **hook** bearing directly against the **locking** member.

The **locking** device further comprises a secondary **latch** adjacent to the primary **latch** and made in the form of a member that is slidably mounted in the box to slide between a retracted, open position and an

extended, closed position in which the sliding member is in the direct vicinity of an associated second catch member.

ADVANTAGE - Provides a very high level of safety in particular in the event of failure of tilting **hook latch**.

**Title Terms**/Index Terms/Additional Words: JET; ENGINE; **LOCK** ; DOUBLE; BOLT ; FIRST; **HOOK** ; SHAPE; CLOSE; ROUND; **BAR** ; CONNECT; SECOND; **DETACH** ; CATCH; STOP; TURN; PUSH; **BUTTON** ; SENSE

**Class Codes**

International Classification (Main): B64C-001/26, B64C-025/26, E05B-063/14, E05C-019/12, E05C-005/00

(Additional/Secondary): F02K-001/54, F02K-001/76

US Classification, Issued: 292005000, 292008000, 292201000

File Segment: EngPI; ;

DWPI Class: Q25; Q47; Q53

12/5/18 (Item 18 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2006 The Thomson Corporation. All rts. reserv.

0005976144 - Drawing available

WPI ACC NO: 1992-209363/199226

XRPX Acc No: N1992-158780

**Double ended hinge and latch for motor vehicle console or box lid - gives positive latch and hinge action at each end of lid by using button releasing biased latch bar in slotted plates rotating on hinge shaft**

Patent Assignee: KATO HATSUJO KAISHA LTD (KATO-N)

Inventor: AIHARA M

**Patent Family** (5 patents, 5 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
EP 491126	A1	19920624	EP 1991117326	A	19911010	199226 B
US 5212849	A	19930525	US 1991769641	A	19911001	199322 E
EP 491126	B1	19960313	EP 1991117326	A	19911010	199615 E
DE 69117898	E	19960418	DE 69117898	A	19911010	199621 E
			EP 1991117326	A	19911010	
JP 3044671	B2	20000522	JP 1990411052	A	19901217	200029 E

Priority Applications (no., kind, date): JP 1990411052 A 19901217

#### Patent Details

Number	Kind	Lan	Pg	Dwg	Filing	Notes
EP 491126	A1	EN	8	5		
Regional Designated States, Original: DE FR GB						
US 5212849	A	EN	7	5		
EP 491126	B1	EN	8	5		
Regional Designated States, Original: DE FR GB						
DE 69117898	E	DE				Application EP 1991117326
						Based on OPI patent EP 491126
JP 3044671	B2	JA	5			Previously issued patent JP 04216792

#### Alerting Abstract EP A1

A motor vehicle console or similar top opening box (1) has a lid (2) with slots (12) at each end to accommodate operating **buttons** (13). A hinge shaft (4) across the box has two pivot plates (5) which are slotted (6) to take a **latch bar** (7) biased by **springs** (8) towards the shaft (4).

The hinge **bar** (4) and the **latch bar** (7) are accommodated in slots (10) and (11) respectively in the lower recessed lid portion (9). The **button** (13) is shaped (14b) to by pass the hinge shaft, and has an end **hook** (14a) to engage and **release** the **latch bar** from the **hooks** (11).

USE/ADVANTAGE - A double ended hinge system for a motor vehicle console lid or other similar application, with positive **latching**. Simple, low cost, and easy push **button** operation at either end.

#### Equivalent Alerting Abstract US A

The device includes a pair of rotary shafts and a pair of rotary shafts and a pair of **lock** shafts severally disposed in opposite lateral parts of the opening of the box body. Coil **springs** interconnect the rotary and **lock** shafts on the respective sides and urge the **lock** shafts toward the corresponding rotary shafts.

An operating member cause the **lock** shafts to be **moved** away from the corresponding rotary shafts against the resilient force of the **springs**. The opposite lateral parts of the lid have first engaging holes for engagement with the rotary shafts and second engaging holes for engagement with the **lock** shafts severally formed them.

USE - A device for opening and shutting in two directions a lid disposed rotatably on an opening of a box body.

**Title Terms/Index Terms/Additional Words:** DOUBLE; END; HINGE; **LATCH** ;



MOTOR; VEHICLE; CONSOLE; BOX; LID; POSITIVE; ACTION; **BUTTON** ; **RELEASE** ;  
BIAS; **BAR** ; SLOT; PLATE; ROTATING; SHAFT

**Class Codes**

International Classification (Main): E05D-015/50

(Additional/Secondary): B60R-007/04, E05C-021/00, E05D-007/10

US Classification, Issued: 016232000, 016DIG

File Segment: EngPI; ;

DWPI Class: Q17; Q47

12/5/20 (Item 20 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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0003665713

WPI ACC NO: 1986-107478/198617

**Connecting element for frames or exhibition stands - has cover and base forming shell guiding sliding locking bar inside hollow member**

Patent Assignee: EXIBELCO GMBH (EXIB-N)

Inventor: MAIER H; NEUMANN B; SCHAAFHAUSEN L R

**Patent Family** (12 patents, 17 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
DE 3437805	A	19860417	DE 3437805	A	19841016	198617 B
EP 178369	A	19860423	EP 1985102013	A	19850223	198617 E
AU 198548727	A	19860424				198624 E
NO 198504057	A	19860512				198626 E
DK 198504713	A	19860417				198634 E
FI 198503973	A	19860417				198636 E
BR 198505111	A	19860729				198637 E
DE 3437805	C	19870625	DE 3437805	A	19841016	198725 E
			DE 3437805	A	19841016	
US 4690582	A	19870901	US 1985787425	A	19851015	198737 E
CA 1245032	A	19881122				198851 E
EP 178369	B	19891025	EP 1985102013	A	19850223	198943 E
DE 3573946	G	19891130	DE 3437805	A	19841016	198949 E

Priority Applications (no., kind, date): DE 3437805 A 19841016

#### Patent Details

Number	Kind	Lan	Pg	Dwg	Filing	Notes
DE 3437805	A	DE	30	9		
EP 178369	A	DE				
Regional Designated States,Original: AT BE CH DE FR GB IT LI LU NL SE						
BR 198505111	A	PT				
DE 3437805	C	DE		9		
CA 1245032	A	EN				
EP 178369	B	DE				
Regional Designated States,Original: AT BE CH DE FR GB IT LI NL SE						

#### Alerting Abstract DE A

The method of forming a connection (2) between a wall of an upper member and a hollow member at right angles to it uses a two part connecting element, housed inside the hollow member. The connecting element has a slider with a hooked end inserted into a hole in the upper member, then clamping it with a sliding action. The travel of the slider is controlled by eccentric parts of a bolt accessible from outside, and supported by a shell forming the second part.

The bolt has a flange between two eccentric portions, in contact with the slider, and guiding it. The shell has a cylinder at the top, guiding the top of the slider and receiving a cylinder projecting from a cover forming a separate part of the shell. The cover also supports and guides the slider, and uses a second connecting cylinder at the bottom.

ADVANTAGE - Safe, compact and concealed elements are used.

#### Equivalent Alerting Abstract DE C

The method of forming a connection (2) between a wall of an upper member and a hollow member at right angles to it uses a two part connecting element, housed inside the hollow member. The connecting element has a slider with a hooked end inserted into a hole in the upper member, then clamping it with a sliding action.

The travel of the slider is controlled by eccentric parts of a bolt accessible from outside, and supported by a shell forming the second part.

The bolt has a flange between two eccentric portions, in contact with the

slider, and guiding it. The shell has a cylinder at the top, guiding the top of the slider and receiving a cylinder projecting from a cover forming a separate part of the shell. The cover also supports and guides the slider, and uses a second connecting cylinder at the bottom.

ADVANTAGE - Safe, compact and concealed elements are used.  
Equivalent Alerting Abstract US A

A housing has a bottom part and a lid connected to one another by means of snap- **lock** coupling elements. The housing is insertable into a longitudinal recess at one end face of a horizontal profile section. A **latch** is slidably disposed in the housing and has, at an end projecting from the housing, a **hook** for engaging an inwardly facing surface of a vertical profile section.

At an end opposite the **hook**, the **latch** has a rectangular aperture traversed by a cylindrical eccentric pin projecting from the housing of the connector into a transverse bore in the horizontal profile section. The eccentric pin is outwardly biased by a spiral compression **spring** disposed on a side of the **latch** opposite the **hook** and opposite an incline disposed on the inner side of a housing portion and engageable with a bent segment of the **latch** for producing a transverse motion of the **hook** during a terminal phase of a longitudinal motion of the **latch**.

USE - Connector for **detachably** joining one profile section to another in a structural framework assembly. (12pp)e

**Title Terms/Index Terms/Additional Words:** CONNECT; ELEMENT; FRAME; EXHIBIT; STAND; COVER; BASE; FORMING; SHELL; GUIDE; SLIDE; **LOCK** ; **BAR** ; HOLLOW; MEMBER

**Class Codes**

International Classification (Main): B25G-003/00

(Additional/Secondary): E04B-001/48, F16B-012/20, F16B-012/32, F16B-012/38, F16B-005/06, F16B-007/00, F16B-009/00, F16B-009/02, F16S-001/00

US Classification, Issued: 403252000, 403255000, 403322000

File Segment: EngPI; ;

DWPI Class: P62; Q43; Q61; Q68

12/5/21 (Item 21 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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0002074998

WPI ACC NO: 1980-K5332C/198044

**Suitcase lock with two catches - has bolts engaged independently but released by common press button**

Patent Assignee: MANZONI S (MANZ-I)

Inventor: MANZOIN S; MANZONI S

**Patent Family** (6 patents, 7 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
EP 17539	A	19801015	EP 1980400360	A	19800318	198044 B
BR 198002116	A	19801125				198050 E
FR 2453258	A	19801204				198105 E
US 4365490	A	19821228	US 1980135637	A	19800331	198303 E
EP 17539	B	19830209	EP 1980400360	A	19800318	198307 E
DE 3061851	G	19830317				198312 E

Priority Applications (no., kind, date): EP 1980400360 A 19800318; FR 19798863 A 19790406

#### Patent Details

Number	Kind	Lan	Pg	Dwg	Filing	Notes
EP 17539	A	FR				
Regional Designated States,Original: BE DE GB IT						
BR 198002116	A	PT				
EP 17539	B	FR				
Regional Designated States,Original: BE DE GB IT						

#### Alerting Abstract EP A

The **lock** of a suitcase is housed in a long housing of U-shaped cross-section which fits on the inside surface of the suitcase wall. A **spring** loaded pawl at each end of the housing engages notches in the bolts in the suitcase lid.

The pawls can be **released** by a sliding metal strip which is actuated by a press **button** which projects through a hole in the suitcase wall. The pawls can be **locked** by a second sliding strip which is actuated by a cam which is rotated by a key.

The design of the **lock** enables each catch to be separately engaged, which is an advantage when closing a bulging suitcase.

**Title Terms/Index Terms/Additional Words:** SUITCASE; **LOCK** ; TWO; CATCH; BOLT; ENGAGE; INDEPENDENT; **RELEASE** ; COMMON; PRESS; **BUTTON**

#### Class Codes

International Classification (Main): E05B-015/12

(Additional/Secondary): E05B-065/52

US Classification, Issued: 070070000, 070071000, 292DIG, 292030000, 292221000, 312218000

File Segment: EngPI; ;  
DWPI Class: Q47

19/5/1 (Item 1 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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0014483287 - Drawing available

WPI ACC NO: 2004-200116/

XRPX Acc No: N2004-158751

Lock mechanism for cover involves lock rail releasably couplable  
with number of hooks and movably activated by manually engaged lock  
knob motivated by spring force

Patent Assignee: HARALDSSON T (HARA-I); KEBA SWEDEN AB (KEBA-N)

Inventor: HARALDSSON T

Patent Family (5 patents, 3 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
SE 200300179	A	20040203	SE 2003179	A	20030124	200419 B
SE 522337	C2	20040203				200419 E
US 20040151532	A1	20040805	US 2004763490	A	20040123	200452 E
GB 2399317	A	20040915	GB 20041546	A	20040126	200461 E
GB 2399317	B	20060201	GB 20041546	A	20040126	200611 E

Priority Applications (no., kind, date): SE 2003179 A 20030124

#### Patent Details

Number	Kind	Lan	Pg	Dwg	Filing	Notes
SE 200300179	A	SV	1	1		
SE 522337	C2	SV				

#### Alerting Abstract SE A

NOVELTY - The device (1) involves a lock mechanism (2) for a cover (3),  
entailing a lock rail (5) releasably couplable with a number of  
hooks (4) and movably activated by a manually engaged lock knob (6)  
motivated by spring force. The lock knob has both a spring and a  
conductive function for the axially movable (7,8) lock rail and is  
releasably connected to the rail at its one end.

USE - As a lock mechanism for a cover.

DESCRIPTION OF DRAWINGS - The figure shows a plan view of a section of a  
cover.

- 1 device
- 2 lock mechanism
- 3 cover
- 4 hooks
- 5 lock rail
- 6 lock knob
- 7,8 directions of movement of lock rail

Title Terms/Index Terms/Additional Words: LOCK ; MECHANISM; COVER; RAIL ;  
RELEASE ; COUPLE; NUMBER; HOOK ; MOVE ; ACTIVATE; MANUAL; ENGAGE;  
KNOB ; MOTIVE; SPRING ; FORCE

#### Class Codes

International Classification (Main): B42F-013/00 , B42F-003/04

International Classification (+ Attributes)

IPC + Level Value Position Status Version

B42F-0013/26 A I F B 20060101

B42F-0013/00 C I F B 20060101

US Classification, Issued: 402035000

File Segment: EngPI; ;

DWPI Class: P76

19/5/2 (Item 2 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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0012872874 - Drawing available

WPI ACC NO: 2002-731917/

Related WPI Acc No: 2001-558330; 2005-160961

XRPX Acc No: N2002-577067

Button binder for holding apertured paper, has pull piece which is pulled to open respective button cap from button post

Patent Assignee: HAN N (HANN-I)

Inventor: HAN N

Patent Family (2 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
US 20020131809	A1	20020919	US 1999163735	P	19991116	200279 B
			US 2000174820	P	20000107	
			US 2000484878	A	20000118	
			US 2001755548	A	20010105	
US 6663310	B2	20031216	US 2000174820	P	20000107	200382 E
			US 2001755548	A	20010105	

Priority Applications (no., kind, date): US 2000484878 A 20000118; US 2000174820 P 20000107; US 1999163735 P 19991116; US 2001755548 A 20010105

#### Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
US 20020131809	A1	EN	31	68	Related to Provisional US 1999163735 Related to Provisional US 2000174820 Continuation of application US 2000484878
US 6663310	B2	EN			Related to Provisional US 2000174820

#### Alerting Abstract US A1

NOVELTY - A strip (20) with several button posts (31) and several connection pieces (22) with button cap (32) and pull piece (23), is provided to both rear and front sheets (12,11). The cap is released from a respective post to open a button, by pulling the pull piece.

DESCRIPTION - An INDEPENDENT CLAIM is included for button.

USE - For holding apertured papers, sheets.

ADVANTAGE - Offers a safe binder provided with buttons for holding and removing sheet easily. Requires less space for installation of button. Secures papers tightly in the folder.

DESCRIPTION OF DRAWINGS - The figure shows a perspective view of the button binder.

- 12,11 Rear and front sheets
- 20 Strip
- 22 Connection pieces
- 23 Pull piece
- 31 Button posts
- 32 Button cap

Title Terms/Index Terms/Additional Words: BUTTON ; BIND; HOLD; APERTURE; PAPER; PULL; PIECE; OPEN; RESPECTIVE; CAP; POST

#### Class Codes

International Classification (Main): B42F-003/00

US Classification, Issued: 402070000, 402008000, 024067R00, 024067500, 281021100, 402069000, 402070000, 402080R00, 402502000, D19026000

File Segment: EngPI; ;

DWPI Class: P76

19/5/3 (Item 3 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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0007522013

WPI ACC NO: 1996-135143/199614

XRPX Acc No: N1996-113672

**Two way detachable metal fitting clamp for file - has clamp hole inside which hinge pin is clamped adjoining to bending part of elastic nature**

Patent Assignee: KING JIM CO LTD (KING-N); YAMANOI SEIKI KK (YAMA-N)

Inventor: YAMANOI M

**Patent Family** (2 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
JP 8025869	A	19960130	JP 1994169845	A	19940721	199614 B
JP 3133903	B2	20010213	JP 1994169845	A	19940721	200111 E

Priority Applications (no., kind, date): JP 1994169845 A 19940721

#### Patent Details

Number	Kind	Lan	Pg	Dwg	Filing	Notes
JP 8025869	A	JA	6	8		
JP 3133903	B2	JA	6			Previously issued patent JP 08025869

#### Alerting Abstract JP A

The two way **detachable** clamp is housed in an outer board (50) of a file. The metallic clamp has a main body (10) with a two **detachable** side boards (12,14) held on hinges (16). The side boards are operated by two sliding **knobs** (30) supported on **springs** (32).

A flexible **lever** (36) which has a **hook** (37) engages with the **lock** pin (54) formed on the outer board of file thereby forming a **lock** mechanism. The **lock** is **released** by movement of an L-shaped **lever** (58) positioned near the **spring**. A clamp hole (46) is formed in the outer board inside which a hinge pin (22) is clamped adjoining to the bending part of elastic nature.

USE/ADVANTAGE - For filing of documents. Improves flexibility while **removing** documents from either side. Reduces cost. Eases mfg and assembling. Enables easy operation of **lock** mechanism. Provides compact structure.

**Title Terms**/Index Terms/Additional Words: TWO; WAY; **DETACH** ; METAL; FIT; CLAMP; FILE; HOLE; HINGE; PIN; ADJOIN; BEND; PART; ELASTIC; NATURE

#### Class Codes

International Classification (Main): **B42F-013/30**

File Segment: EngPI; ;

DWPI Class: P76

19/5/4 (Item 4 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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0005351802 - Drawing available

WPI ACC NO: 1990-350795/199047

XRPX Acc No: N1990-267982

**Ring binder locking mechanism - has trigger lever which includes pivot projections for pivoting on and in plate apertures**

Patent Assignee: ACCO WORLD CORP (ACCO-N)

Inventor: COOPER E W; GUERRIERI O R

**Patent Family** (6 patents, 16 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
GB 2231536	A	19901121	GB 198918478	A	19890814	199047 B
WO 1990013441	A	19901115	WO 1990US2516	A	19900507	199048 E
EP 428683	A	19910529	EP 1990908873	A	19900507	199122 E
US 5067840	A	19911126	US 1989348843	A	19890508	199150 E
			US 1990609287	A	19901105	
JP 4500483	W	19920130				199211 E
GB 2231536	B	19930203	GB 198918478	A	19890814	199305 E

Priority Applications (no., kind, date): US 1990609287 A 19901105; US 1989348843 A 19890508

**Patent Details**

Number	Kind	Lan	Pg	Dwg	Filing	Notes
WO 1990013441	A	EN				
National Designated States,Original: CA JP KR						
Regional Designated States,Original: AT BE CH DE DK ES FR GB IT LU NL SE						
EP 428683	A	EN				
Regional Designated States,Original: AT BE DE FR IT LU NL						
GB 2231536	B	EN	2			

**Alerting Abstract GB A**

A pair of spaced apart blisters are on the case member. Spaced apart lugs on the body portion of the **trigger lever** position in and engage with such blisters.

**Trigger** lower projections are on the body portion. Apertures in the hinge plates receive and engage the lower **trigger** projections. The **trigger lever** is pivotal about such apertures in **moving** the **trigger lever** to a **locked** position where the lugs are positioned in the blisters. @(11pp Dwg.No.3/7)@

**Equivalent Alerting Abstract US A**

The loose-leaf sheet binder **lock** has a case, a pair of elongated hinge plates engageable along a centreline and ring halves mounted on the plates operable to form loose-leaf retaining rings. A **trigger lever** has a body portion vertically-oriented when the **lever** is closed. The **trigger** is operable to **move** the plates between an open ring position to a closed ring position.

A pair of spaced-apart blisters are oriented at an angle to the plate centreline on the case. Spaced-apart lugs on the body portion of the **trigger lever** are oriented at an angle to the plate centreline for positioning in and engagement with the blisters.

ADVANTAGE - Reduced risk of accidental opening. @(5pp)@

**Title Terms/Index Terms/Additional Words:** RING; BIND; **LOCK** ; MECHANISM; **TRIGGER** ; **LEVER** ; PIVOT; PROJECT; PLATE; APERTURE

**Class Codes**

International Classification (Main): **B42F-013/16**

(Additional/Secondary): **B42F-013/22** , **B42F-013/26**

US Classification, Issued: 402038000, 402041000



File Segment: EngPI; ;  
DWPI Class: P76

19/5/6 (Item 6 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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0002016319

WPI ACC NO: 1980-E8033C/198022

**Index card register assembly - is fitted inside housing with lockable drawer operated by key selection lever system (NL 20.5.80)**

Patent Assignee: KOLLER W (KOLL-I)

Inventor: KOLLER W

**Patent Family** (14 patents, 12 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	
DE 2850186	A	19800522	DE 2850186	A	19781118	198022	B
			DE 2850186	A	19781118		
NL 197908333	A	19800520				198023	E
BE 880070	A	19800516				198024	E
GB 2035216	A	19800618				198025	E
DE 2850186	B	19800626	DE 2850186	A	19781118	198027	E
SE 197909254	A	19800616				198027	E
DK 197904866	A	19800616				198028	E
FR 2441497	A	19800718				198036	E
US 4254567	A	19810310	US 197993043	A	19791113	198113	NCE
			US 197993043	A	19791113		
CA 1117841	A	19820209				198210	E
CH 644799	A	19840831				198438	E
AT 197906728	A	19860715				198634	E
NL 181567	B	19870416				198719	E
IT 1131009	B	19860618	IT 198020794	A	19800320	198748	NCE

Priority Applications (no., kind, date): DE 2850186 A 19781118

#### Patent Details

Number	Kind	Lan	Pg	Dwg	Filing	Notes
BE 880070	A	FR				
SE 197909254	A	SV				
CA 1117841	A	EN				
CH 644799	A	DE				

#### Alerting Abstract DE A

A number of cards with index numbers or letters are positioned inside a lockable drawer under **spring** pressure and located inside a housing. There are several keys each of which when depressed selects a certain register card. They actuate the unlocking mechanism for the drawer to **release** the selected register card together with the outwards movement of the drawer.

The drawer has in its front section an elevation extending over the whole width of the drawer which serves as the base for the register cards and is also fitted at the base of its lower lying section with several longitudinal slots into which formed on supports with surfaces for the rear ends of the register cards fit when the drawer is closed.

**Title Terms/Index Terms/Additional Words:** INDEX; CARD; REGISTER; ASSEMBLE; FIT; HOUSING; **LOCK** ; DRAWER; OPERATE; KEY; SELECT; **LEVER** ; SYSTEM

#### Class Codes

International Classification (Main): **B42F-017/18**

(Additional/Secondary): **B42F-017/34**

US Classification, Issued: 040389000, 040513000, 040532000

File Segment: EngPI; ;

DWPI Class: P76

19/5/7 (Item 7 from file: 350)  
 DIALOG(R)File 350:Derwent WPIX  
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0001376591

WPI ACC NO: 1977-D5830Y/197718

Button operated sliding drawer index card holder - has pivot bar on each button with pins engaging perforated tabs on cards

Patent Assignee: ARLAC WERK HEIKO IP (ARLA-N); ARLAC-W HEIKO IPPEN (HEIK-N)  
 ; CONFON AG (CONF-N); NIVEAU AG (NIVE-N)

Inventor: HALM H

Patent Family (25 patents, 13 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
BE 849891	A	19770415				197718 B
AT 197609468	A	19771015				197744 E
DE 2647067	A	19780427	DE 2647067	A	19761019	197818 E
NL 197614486	A	19780421				197818 E
SE 197614128	A	19780516				197822 E
DK 197605590	A	19780612				197827 E
FR 2368370	A	19780623				197829 E
BR 197608788	A	19780725				197832 E
US 4100060	A	19780711	US 1977760260	A	19770118	197837 E
DE 2659994	A	19781109				197846 E
CA 1054954	A	19790522				197923 E
FR 2405823	A	19790615				197929 E
CA 1058530	A	19790717				197932 E
DE 2647067	B	19791004				197941 E
US 4175663	A	19791127	US 1978923388	A	19780710	197949 E
CH 614161	A	19791115				197950 E
SE 197906278	A	19800303				198012 E
NL 197908405	A	19800331				198016 E
DE 2659994	B	19800529	DE 2659994	A	19761019	198023 E
GB 1568978	A	19800611				198024 E
GB 1568979	A	19800611				198024 E
CH 621093	A	19810115				198110 E
NL 166886	B	19810515				198124 E
NL 170244	B	19820517				198223 E
IT 1072321	B	19850410				198538 E

Priority Applications (no., kind, date): DE 2659994 A 19761019; DE 2647067 A 19761019; DE 2741222 A 19770913

#### Patent Details

Number	Kind	Lan	Pg	Dwg	Filing	Notes
BE 849891	A	FR				
SE 197614128	A	SV				
BR 197608788	A	PT				
CA 1054954	A	EN				
CA 1058530	A	EN				
CH 614161	A	DE				
SE 197906278	A	SV				
CH 621093	A	DE				

#### Alerting Abstract BE A

An index card holder with an automatic card selection system has a compact flat casing and a cover and a set of press buttons marked with all the letters of the alphabet, and when a button is pressed, a drawer underneath slides open to expose the card selected by the button. The buttons operate corresponding horizontal pivot arms which rest on a cross bar acting as the pivot, and which are kept in position by a set of leaf springs at the other end. At this end, the arms carry selector pins in two rows which engage perforated tabs extending from the rear of the cards, each tab carrying one more perforation than the next.

Near the path of travel of these pins, at the base, is a drawer return rod acting as a **spring** and a drawer **locking** device which allows the drawer to open. At the front of the drawer is triangular lug which engages the card

**Title Terms/Index Terms/Additional Words:** **BUTTON** ; OPERATE; SLIDE; DRAWER; INDEX; CARD; HOLD; PIVOT; **BAR** ; PIN; ENGAGE; PERFORATION; TAB

**Class Codes**

International Classification (Main): A21C-009/00

(Additional/Secondary): B07C-005/00, B07C-009/00, **B42F-017/34** ,

G06C-007/02, G06K-013/14, G06K-021/04

US Classification, Issued: 209613000, 209610000, 209612000

File Segment: EngPI; EPI;

DWPI Class: T01; T04; P43; P76

Set	Items	Description
S1	38	AU=(HARALDSSON, T? OR HARALDSSON T?)
S2	30	S1 NOT PY>2003
S3	19	RD (unique items)
File	2:INSPEC 1898-2006/Jul W3	(c) 2006 Institution of Electrical Engineers
File	6:NTIS 1964-2006/Jul W3	(c) 2006 NTIS, Intl Cpyrght All Rights Res
File	8:Ei Compendex(R) 1970-2006/Jul W3	(c) 2006 Elsevier Eng. Info. Inc.
File	18:Gale Group F&S Index(R) 1988-2006/Jul 24	(c) 2006 The Gale Group
File	19:Chem.Industry Notes 1974-2006/ISS 200629	(c) 2006 Amer.Chem.Soc.
File	25:Weldasearch 19662006/Jun	(c) 2006 TWI Ltd
File	30:AsiaPacific 1985-2006/Jul 23	(c) 2006 Aristarchus Knowledge Indus.
File	35:Dissertation Abs Online 1861-2006/Jun	(c) 2006 ProQuest Info&Learning
File	50:CAB Abstracts 1972-2006/Jun	(c) 2006 CAB International
File	51:Food Sci.&Tech.Abs 1969-2006/Jul W4	(c) 2006 FSTA IFIS Publishing
File	54:FOODLINE(R): Market 1979-2006/Jul 25	(c) 2006 LFRA
File	63:Transport Res(TRIS) 1970-2006/Jun	(c) fmt only 2006 Dialog
File	65:Inside Conferences 1993-2006/Jul 25	(c) 2006 BLDSC all rts. reserv.
File	67:World Textiles 1968-2006/Jul	(c) 2006 Elsevier Science Ltd.
File	81:MIRA - Motor Industry Research 2001-2006/May	(c) 2006 MIRA Ltd.
File	92:IHS Intl.Stds.& Specs. 1999/Nov	(c) 1999 Information Handling Services
File	94:JICST-EPlus 1985-2006/Apr W4	(c) 2006 Japan Science and Tech Corp(JST)
File	95:TEME-Technology & Management 1989-2006/Jul W4	(c) 2006 FIZ TECHNIK
File	96:FLUIDEX 1972-2006/May	(c) 2006 Elsevier Science Ltd.
File	99:Wilson Appl. Sci & Tech Abs 1983-2006/Jun	(c) 2006 The HW Wilson Co.
File	103:Energy SciTec 1974-2006/Jun B1	(c) 2006 Contains copyrighted material
File	105:AESIS 1851-2001/Jul	(c) 2001 Australian Mineral Foundation Inc
File	111:TGG Natl.Newspaper Index(SM) 1979-2006/Jul 12	(c) 2006 The Gale Group
File	118:ICONDA-Intl Construction 1976-2006/Jun	(c) 2006 Fraunhofer-IRB
File	144:Pascal 1973-2006/Jul W1	(c) 2006 INIST/CNRS
File	211:Gale Group Newsearch(TM) 2006/Jul 24	(c) 2006 The Gale Group
File	240:PAPERCHEM 1967-2006/Jul W4	(c) 2006 Elsevier Eng. Info. Inc.
File	248:PIRA 1975-2006/Jul W1	(c) 2006 Pira International
File	249:Mgt. & Mktg. Abs. 1976-2006Jul W3	(c) 2006 Pira International
File	315:ChemEng & Biotec Abs 1970-2006/Jun	(c) 2006 DECHEMA
File	323:RAPRA Rubber & Plastics 1972-2006/Jul	

(c) 2006 RAPRA Technology Ltd  
File 399:CA SEARCH(R) 1967-2006/UD=14505  
(c) 2006 American Chemical Society  
File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec  
(c) 2006 The Thomson Corp  
File 484:Periodical Abs Plustext 1986-2006/Jul W3  
(c) 2006 ProQuest  
File 583:Gale Group Globalbase(TM) 1986-2002/Dec 13  
(c) 2002 The Gale Group

3/5/8 (Item 6 from file: 65)

DIALOG(R)File 65:Inside Conferences

(c) 2006 BLDSC all rts. reserv. All rts. reserv.

00276819 INSIDE CONFERENCE ITEM ID: CN002573684

**The edgewise compression creep of paperboard - new principles of evaluation**

Fellers, C.; Haraldsson, T. ; Kolseth, P.

CONFERENCE: Products of papermaking-10th Fundamental research symposium

P: 601-637

PIRA, 1993

ISBN: 1858020530

LANGUAGE: English DOCUMENT TYPE: Conference Papers

CONFERENCE EDITOR(S): Baker, C. F.

CONFERENCE SPONSOR: PIRA Fundamental Research Committee

CONFERENCE LOCATION: Oxford

CONFERENCE DATE: Sep 1993 (199309) (199309)

BRITISH LIBRARY ITEM LOCATION: 94/06041 Products

NOTE:

Vols 1-2 of 3 vols recd only

DESCRIPTORS: papermaking; PIRA; FRC

3/5/10 (Item 1 from file: 240)

DIALOG(R)File 240:PAPERCHEM

(c) 2006 Elsevier Eng. Info. Inc. All rts. reserv.

00351854 PAPERCHEM NO: AB6501854

**Edgewise Compression Creep of Paperboard**

**Haraldsson, T. ; Fellers, C. ; Kolseth, P.**

AUTHOR AFFILIATION: Haraldsson, T. (STFI. (Stockholm: Sweden)).; Fellers, C. (STFI. (Stockholm: Sweden)).; Kolseth, P. (STFI. (Stockholm: Sweden)).

CONFERENCE TITLE: Products of Papermaking, Vol. 1 (Baker, C. F., ed.)

SOURCE: Products of Papermaking, Vol. 1 (Baker, C. F., ed.): 601-637 (c1993; Pira). [Engl.]

PUBLICATION YEAR: 1993

DOCUMENT TYPE: CONFERENCE LITERATURE

LANGUAGES: ENGLISH

The creep behavior of representative linerboards and corrugating media in a constant standard ambient climate of 50% RH was observed to describe creep due to more complicated load or humidity histories. It is suggested that the creep of paper follows the fundamental behavior of the material already established at short times and described by the creep equation. It is concluded that the suggested method used to describe the creep behavior of paperboard in edgewise compression works for paperboard in the same way as for other polymers and that the relation between stress, strain, and time may be described by a simple equation. (15 fig., 40 ref., 1 tab.)

DESCRIPTORS: BIBLIOGRAPHIES; COMPRESSION STRENGTH; CREEP; EDGE CRUSH RESISTANCE; ENGLISH; MECHANICAL PROPERTIES; PABD; PAPER BOARDS; RHEOLOGICAL PROPERTIES

FILE SEGMENT: AB (IPST Abstract Bulletin non-patents)



3/5/11 (Item 1 from file: 248)  
DIALOG(R)File 248:PIRA  
(c) 2006 Pira International. All rts. reserv.

00610502 Pira Acc. Num.: 20206191

**Title: Mechano-sorptive creep in compression. Influence of fibre shape and sheet structure**

Authors: Fellers C; Haraldsson T ; Mohlin U-B

Source: 4th International symposium on moisture and creep effects on paper, board and containers, Grenoble, France, 18-19 Mar. 1999, pp 165-172 [Grenoble, France: Ecole Francaise de Papeterie et des Industries Graphiques, 1999, 283pp, USD100.00 (ISBN 2-9515239-0-4)] (C, K)

Publication Year: 1999

Document Type: Conference Publication

Language: English

Pira Subfiles: Paperbase (PB)

Journal Announcement: 0204

Abstract: The creep properties of laboratory sheets made of virgin and recycled pulps were investigated, to determine if the differences in properties of the pulps could be explained by differences in fibre curl, number of microcompressions and sheet structure. The pulp used was a commercial never-dried, unbleached softwood pulp with kappa number of 33, which was chosen because it had a large fraction of straight fibres with few microcompressions. Sheet structure was characterised by the structural density, with creep measurements performed at 90% relative humidity (RH) and at the cyclic climate of 50-90% RH. It was found that straight fibres in the sheet gave significantly better creep properties than curled fibres in all climates. If microcompressions were introduced by recycling, they gave insignificant effect on sheet properties, however, if they were introduced by HC treatment, the sheet properties drastically deteriorated. Comparison of creep properties for sheets of virgin and recycled fibres, both containing straight, well beaten fibres, showed that there was no difference in the creep properties for the two types of sheets. The possible differences in creep properties between commercial virgin and recycled papers must be due to other factors than the extra drying cycle of the recycled fibres. (10 fig)

Company Names: Ecole Francaise de Papeterie et des Industries Graphiques

Descriptors: COMPRESSION; CONFERENCE; CREEP; FIBRE PROPERTIES; HUMIDITY; PAPER PROPERTIES; RECYCLED PULP; VIRGIN PULP

Section Headings: Properties and testing - finished paper and board  
(1240)

3/5/13 (Item 3 from file: 248)  
DIALOG(R)File 248:PIRA  
(c) 2006 Pira International. All rts. reserv.

00491461 Pira Acc. Num.: 20092643

**Title: Creep properties of paper - principles of evaluation**

Authors: Haraldsson T ; Fellers C; Soremark C

Source: 3rd International symposium on moisture and creep effects on paper, board and containers, Rotorua, New Zealand, 20-21 Feb. 1997, pp 237-246 [Rotorua, New Zealand: PAPRO, 1997, 276pp] (K)

Publication Year: 1997

Document Type: Conference Publication; Book

Language: English

Pira Subfiles: Paperbase (PB)

Journal Announcement: 9801

Abstract: A new approach to box dimensioning is proposed, which describes the box performance in terms of deformation instead of strength. Although the essential stacking property has to be fulfilled, it is suggested that the overall functionality of the box is related to the strain or the bulge of the box. It is concluded that knowledge of the stress-strain behaviour of the constituent papers as a function of time, temperature and humidity is essential for the engineering of boxes. Stress-strain isochronous curves can be determined for paper in a cyclic climate. These isochronous curves may be used to predict board or box performance. (19 fig)

Company Names: Appita; PAPRO; USDA Forest Products Laboratory

Descriptors: CORRUGATED BOX; CREEP; HUMIDITY; INTERNAL STRESS; PAPER PROPERTIES; STRESS STRAIN PROPERTIES

Section Headings: Properties and testing - paper and board (1240); Paper and board packaging (1257)

3/5/14 (Item 4 from file: 248)  
DIALOG(R)File 248:PIRA  
(c) 2006 Pira International. All rts. reserv.

00460387 Pira Acc. Num.: 20063666

**Title: The edgewise compressive creep of paperboard at constant relative humidity**

Authors: **Haraldsson T**

Source: TRITA-PMT Report 1995:9, Stockholm, Sweden: Royal Institute of Technology, 1995, 69pp (K, S)

Publication Year: 1995

Document Type: Dissertation

Language: English

Pira Subfiles: Paperbase (PB)

Journal Announcement: 9612

Abstract: An apparatus is described to measure the uniaxial stress strain and creep properties of paperboard and evaluate creep properties in compression. Four different grades of linerboard and corrugating medium were evaluated at 50% relative humidity and the relationship between stress, strain and times was expressed by a simple equation. Data are given as creep curves, isochronous curves and isometric curves. As predicted by linear viscoelastic theory the initial slopes of the isochronous and creep modulus curves were identical in tension and compression. Strain at break in compression was independent of time and can be used to derive a relationship between lifetime and stress. The data could be used to rank materials. (15 fig, 1 tab, 48 ref)

Company Names: Royal Institute of Technology

Descriptors: BOARD PROPERTIES; COMPRESSION; CORRUGATED BOARD; CORRUGATING MEDIUM; CREEP; EDGE CRUSH TEST; HUMIDITY; LINERBOARD; MEASUREMENT; PAPERBOARD; STRAIN; STRAIN GAUGE

Section Headings: Properties and testing - paper and board (1240); Paper and board grades and specialities (1250)

3/5/15 (Item 5 from file: 248)  
DIALOG(R)File 248:PIRA  
(c) 2006 Pira International.. All rts. reserv.

00386431 Pira Acc. Num.: 20009607

**Title: THE EDGEWISE COMPRESSION CREEP OF PAPER BOARD - NEW PRINCIPLES OF EVALUATION**

Authors: **Haraldsson T** ; Fellers C; Kolseth P

Source: Paper presented at Products of Papermaking - Tenth Fundamental Research Symposium held at Oxford, UK, 20-24 Sept. 1993, vol. 1, pp 601-637 [Leatherhead, UK: Pira International, 1993, 1356pp, 3 vols, #175.00 (ISBN 1-85802-053-0) (676.026) (4363)

Publication Year: 1993

Document Type: Conference Publication

Language: English

Pira Subfiles: Paper and Board Abstracts (PB)

Journal Announcement: 9408

Abstract: This paper describes a new method for studying the creep behaviour of paperboard in edgewise compression. A new apparatus is detailed for such an evaluation of the stress-strain and the creep properties of paperboard in compression. The strain at break in compression of the investigated paperboards was found to be independent of time. The relationship between stress, strain and time may be determined by a simple equation involving a power function of time and a factor describing the non-linear behaviour of the stress-strain curve. This study indicates that, with this evaluation method, a relatively few sample specimens and a short creep time are sufficient to obtain a good prediction of long term creep behaviour. (15 fig, 1 tab, 40 ref)

Company Names: FUNDAMENTAL RESEARCH COMMITTEE; PIRA INTERNATIONAL

Descriptors: BOARD PROPERTIES; COMPRESSION STRENGTH; CREEP; PAPERBOARD

Section Headings: Properties and testing of paper and board (1240)

Set	Items	Description
S1	0	AU=(HARALDSSON, T? OR HARALDSSON T?)
File 9:	Business & Industry(R)	Jul/1994-2006/Jul 24
	(c) 2006	The Gale Group
File 15:	ABI/Inform(R)	1971-2006/Jul 25
	(c) 2006	ProQuest Info&Learning
File 16:	Gale Group PROMT(R)	1990-2006/Jul 24
	(c) 2006	The Gale Group
File 20:	Dialog Global Reporter	1997-2006/Jul 25
	(c) 2006	Dialog
File 47:	Gale Group Magazine DB(TM)	1959-2006/Jul 24
	(c) 2006	The Gale group
File 80:	TGG Aerospace/Def.Mkts(R)	1982-2006/Jul 24
	(c) 2006	The Gale Group
File 112:	UBM Industry News	1998-2004/Jan 27
	(c) 2004	United Business Media
File 141:	Readers Guide	1983-2006/Jun
	(c) 2006	The HW Wilson Co
File 148:	Gale Group Trade & Industry DB	1976-2006/Jul 24
	(c) 2006	The Gale Group
File 149:	TGG Health&Wellness DB(SM)	1976-2006/Jul W2
	(c) 2006	The Gale Group
File 160:	Gale Group PROMT(R)	1972-1989
	(c) 1999	The Gale Group
File 192:	Industry Trends & Anal.	1997/Jun
	(c) 1997	Decision Resources Inc.
File 275:	Gale Group Computer DB(TM)	1983-2006/Jul 24
	(c) 2006	The Gale Group
File 369:	New Scientist	1994-2006/Jul W1
	(c) 2006	Reed Business Information Ltd.
File 370:	Science	1996-1999/Jul W3
	(c) 1999	AAAS
File 482:	Newsweek	2000-2006/Jul 24
	(c) 2006	Newsweek, Inc.
File 484:	Periodical Abs Plustext	1986-2006/Jul W3
	(c) 2006	ProQuest
File 553:	Wilson Bus. Abs.	1982-2006/Jul
	(c) 2006	The HW Wilson Co
File 563:	Key Note Market Res.	1986-2001/Aug 03
	(c) 2001	ICC Online Info. Group
File 570:	Gale Group MARS(R)	1984-2006/Jul 24
	(c) 2006	The Gale Group
File 609:	Bridge World Markets	2000-2001/Oct 01
	(c) 2001	Bridge
File 621:	Gale Group New Prod. Annou. (R)	1985-2006/Jul 24
	(c) 2006	The Gale Group
File 624:	McGraw-Hill Publications	1985-2006/Jul 25
	(c) 2006	McGraw-Hill Co. Inc
File 635:	Business Dateline(R)	1985-2006/Jul 25
	(c) 2006	ProQuest Info&Learning
File 636:	Gale Group Newsletter DB(TM)	1987-2006/Jul 24
	(c) 2006	The Gale Group
File 646:	Consumer Reports	1982-2006/Jul
	(c) 2006	Consumer Union
File 647:	CMP Computer Fulltext	1988-2006/Aug W3
	(c) 2006	CMP Media, LLC
File 809:	Bridge World Markets News	1989-1999/Dec 31
	(c) 1999	Bridge

Set	Items	Description
S1	8	AU=(HARALDSSON, T? OR HARALDSSON T?)
S2	8	IDPAT (sorted in duplicate/non-duplicate order)
S3	6	IDPAT (primary/non-duplicate records only)

File 347:JAPIO Dec 1976-2005/Dec(Updated 060404)  
(c) 2006 JPO & JAPIO

File 350:Derwent WPIX 1963-2006/UD=200646  
(c) 2006 The Thomson Corporation

File 348:EUROPEAN PATENTS 1978-2006/ 200629  
(c) 2006 European Patent Office

File 349:PCT FULLTEXT 1979-2006/UB=20060720,UT=20060713  
(c) 2006 WIPO/Univentio

3/5/1 (Item 1 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2006 The Thomson Corporation. All rts. reserv.

0014483288 - Drawing available  
WPI ACC NO: 2004-200117/200419  
XRPX Acc No: N2004-158752

**Arrangement with back of cover involves grip recesses arranged in pairs of cover rear side and which seek friction devices**

Patent Assignee: KEBA SWEDEN AB (KEBA-N)

Inventor: HARALDSSON T

**Patent Family** (2 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
SE 200300180	A	20040203	SE 2003180	A	20030124	200419 B
SE 522336	C2	20040203				200419 E

Priority Applications (no., kind, date): SE 2003180 A 20030124

#### Patent Details

Number	Kind	Lan	Pg	Dwg	Filing	Notes
SE 200300180	A	SV	1	6		
SE 522336	C2	SV				

#### Alerting Abstract SE A

NOVELTY - The arrangement (1) with the back (3) of a cover (2) involves grip recesses (4) arranged in pairs on the cover rear side and which seek friction devices (7) for increasing the grip for a user for securing the cover when withdrawing it from a shelf on which it is located.

USE - As an arrangement with the back of a cover.

ADVANTAGE - The grip by a user on withdrawing a cover from a shelf on which it is located is increased.

DESCRIPTION OF DRAWINGS - The figure displays sectionally the back of a cover.

- 1 arrangement
- 2 cover
- 3 back of cover
- 4 grip recesses
- 7 friction devices

**Title Terms/Index Terms/Additional Words:** ARRANGE; BACK; COVER; GRIP; RECESS; PAIR; REAR; SIDE; SEEKER; FRICTION; DEVICE

#### Class Codes

International Classification (Main): B42F-013/00

File Segment: EngPI; ;  
DWPI Class: P76

3/5/2 (Item 2 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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0014483287 - Drawing available

WPI ACC NO: 2004-200116/

XRPX Acc No: N2004-158751

**Lock mechanism for cover involves lock rail releasably couplable with number of hooks and movably activated by manually engaged lock knob motivated by spring force**

Patent Assignee: HARALDSSON T (HARA-I); KEBA SWEDEN AB (KEBA-N)

Inventor: **HARALDSSON T**

**Patent Family** (5 patents, 3 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	
SE 200300179	A	20040203	SE 2003179	A	20030124	200419	B
SE 522337	C2	20040203				200419	E
US 20040151532	A1	20040805	US 2004763490	A	20040123	200452	E
GB 2399317	A	20040915	GB 20041546	A	20040126	200461	E
GB 2399317	B	20060201	GB 20041546	A	20040126	200611	E

Priority Applications (no., kind, date): SE 2003179 A 20030124

#### Patent Details

Number	Kind	Lan	Pg	Dwg	Filing	Notes
SE 200300179	A	SV	1	1		
SE 522337	C2	SV				

#### Alerting Abstract SE A

NOVELTY - The device (1) involves a lock mechanism (2) for a cover (3), entailing a lock rail (5) releasably couplable with a number of hooks (4) and movably activated by a manually engaged lock knob (6) motivated by spring force. The lock knob has both a spring and a conductive function for the axially movable (7,8) lock rail and is releasably connected to the rail at its one end.

USE - As a lock mechanism for a cover.

DESCRIPTION OF DRAWINGS - The figure shows a plan view of a section of a cover.

- 1 device
- 2 lock mechanism
- 3 cover
- 4 hooks
- 5 lock rail
- 6 lock knob
- 7,8 directions of movement of lock rail

**Title Terms/Index Terms/Additional Words:** LOCK; MECHANISM; COVER; RAIL; RELEASE; COUPLE; NUMBER; HOOK; MOVE; ACTIVATE; MANUAL; ENGAGE; KNOB; MOTIVE; SPRING; FORCE

#### Class Codes

International Classification (Main): B42F-013/00, B42F-003/04

International Classification (+ Attributes)

IPC + Level Value Position Status Version

B42F-0013/26 A I F B 20060101

B42F-0013/00 C I F B 20060101

US Classification, Issued: 402035000

File Segment: EngPI; ;

DWPI Class: P76



3/5/3 (Item 3 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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0012447885 - Drawing available

WPI ACC NO: 2002-393498/

XRPX Acc No: N2002-308549

**Tuning screw assembly for resonator; uses resiliency of intermediate axial part, so as to engage with external thread of screw and achieve frictional locking force**

Patent Assignee: ALLGON AB (ALLG-N); HARALDSSON T (HARA-I); LOWENBORG C (LOWE-I); OSTIN J (OSTI-I)

Inventor: HARALDSSON T ; LOEWENBORG C; LOEWENBORG C G; LOWENBORG C; OESTIN J; OSTIN J

**Patent Family** (7 patents, 95 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
WO 2002006686	A1	20020124	WO 2001SE1595	A	20010709	200242 B
AU 200169663	A	20020130	AU 200169663	A	20010709	200242 E
SE 200002665	A	20020115	SE 20002665	A	20000714	200242 E
SE 516862	C2	20020312	SE 20002665	A	20000714	200242 E
EP 1311770	A1	20030521	EP 2001948184	A	20010709	200334 E
			WO 2001SE1595	A	20010709	
CN 1441879	A	20030910	CN 2001811910	A	20010709	200380 E
US 20040028501	A1	20040212	WO 2001SE1595	A	20010709	200412 E
			US 2003332373	A	20030909	

Priority Applications (no., kind, date): SE 20002665 A 20000714

#### Patent Details

Number	Kind	Lan	Pg	Dwg	Filing	Notes
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WO 2002006686	A1	EN	23	8		
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National Designated States,Original: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

Regional Designated States,Original: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZW

AU 200169663	A	EN			Based on OPI patent	WO 2002006686
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SE 200002665	A	SV				
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SE 516862	C2	SV				
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EP 1311770	A1	EN			PCT Application	WO 2001SE1595
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Based on OPI patent WO 2002006686

Regional Designated States,Original: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI TR

US 20040028501	A1	EN			PCT Application	WO 2001SE1595
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#### Alerting Abstract WO A1

NOVELTY - First and second threaded portions (32,34) of a sleeve (100) are displaced axially from each other in such a way that they do not fit exactly with an external thread (230) of a screw (200). A first axial part of the sleeve (100) may be attached to a frame. A second axial part of the sleeve is resiliently movable in the axial direction by engaging with the external thread (230) of the screw (200) and producing a frictional locking force.

DESCRIPTION - INDEPENDENT CLAIMS are included for:

1.a method of manufacturing an internally threaded sleeve forming a part of tuning screw

2.a resonator comprising a tuning screw assembly

USE - As a tuning screw assembly for a resonator.

ADVANTAGE - Provides a cost-effective way of manufacturing the screw including the deep slots after cutting the external thread.

DESCRIPTION OF DRAWINGS - The drawing shows a cross-sectional side view of the embodiment of the tuning screw including a sleeve.

32,34 threaded portions

100 sleeve

200 screw

230 external thread

**Title Terms**/Index Terms/Additional Words: TUNE; SCREW; ASSEMBLE; RESONANCE; RESILIENT; INTERMEDIATE; AXIS; PART; SO; ENGAGE; EXTERNAL; THREAD; ACHIEVE; FRICTION; LOCK; FORCE

**Class Codes**

International Classification (Main): F16B-037/16, F16B-039/284

(Additional/Secondary): H01P-001/208, H03J-001/00, H03J-001/00

US Classification, Issued: 411437000

File Segment: EngPI; EPI;

DWPI Class: U25; W02; Q61

Manual Codes (EPI/S-X): U25-K; W02-A05B1.

3/5/4 (Item 4 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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0007272144 - Drawing available

WPI ACC NO: 1995-329988/

XRFX Acc No: N1995-248323

**Mechanical weighing mechanism for bathroom scales - has U shaped bar attached to base supporting indicating elements and pair of levers forming V shape pivotally suspended on spring appts. which drives and zeros scale**

Patent Assignee: EKS INT AB (EKSI-N)

Inventor: HARALDSSON T O ; HARALDSSON T S

**Patent Family** (8 patents, 7 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
EP 674159	A1	19950927	EP 1995850066	A	19950323	199543 B
SE 199401015	A	19950925	SE 19941015	A	19940324	199549 E
EP 674159	B1	19970709	EP 1995850066	A	19950323	199732 E
HU 71089	T	19951128	HU 1995847	A	19950323	199734 E
CN 1111347	A	19951108	CN 1995103570	A	19950324	199736 E
DE 69500404	E	19970814	DE 69500404	A	19950323	199738 E
			EP 1995850066	A	19950323	
US 5721400	A	19980224	US 1995409196	A	19950323	199815 E
HU 214526	B	19980330	HU 1995847	A	19950323	199823 E

Priority Applications (no., kind, date): SE 19941015 A 19940324

#### Patent Details

Number	Kind	Lan	Pg	Dwg	Filing	Notes
EP 674159	A1	EN	10	5		
Regional Designated States, Original: DE FR GB IE SE						
SE 199401015	A	SV				
EP 674159	B1	EN	12	8		
Regional Designated States, Original: DE FR GB IE SE						
DE 69500404	E	DE				Application EP 1995850066
						Based on OPI patent EP 674159
US 5721400	A	EN	9	8		
HU 214526	B	HU				Previously issued patent HU 71089

#### Alerting Abstract EP A1

The weighing mechanism includes support bars joined with open V-shapes. The scale has a base and a cover enclosing the weighing appts. Two long levers (12) are pivotally connected at one end to a support on the base with the other end of the long bars fixed to a plate (14) forming a V-shape. The plate is supported by a spring (30) resting on an adjustable (35) pillar. The pillar rests in a U-shaped bar (34) that drives the indicating element.

Two shorter bars (13) are pivotally connected at one end to the base and are connected at the other end via open V-shaped slots to the longer bars.

ADVANTAGE - Allows the bathroom scales to be assembled by means of robots.

**Title Terms/Index Terms/Additional Words:** MECHANICAL; WEIGH; MECHANISM; BATHROOM; SCALE; SHAPE; BAR; ATTACH; BASE; SUPPORT; INDICATE; ELEMENT; PAIR; LEVER; FORMING; PIVOT; SUSPENSION; SPRING; APPARATUS; DRIVE; ZERO

#### Class Codes

International Classification (Main): G01G-019/46, G01G-021/08, G01G-003/00, G01G-003/04

US Classification, Issued: 177256000, 177257000, 177225000

File Segment: EPI;

DWPI Class: S02

Manual Codes (EPI/S-X): S02-D02X

Set	Items	Description
S1	964823	FASTEN? OR CLAMP? ? OR HOLDER? ?
S2	1823900	CLAMP? OR HOLDING OR HELD OR HOLDER? ?
S3	794639	SPRING? OR SPRUNG
S4	194260	BUTTON? ? OR KNOB OR KNOBS OR NUB OR NUBS
S5	679184	RAIL OR RAILS OR BAR OR BARS
S6	1838779	CROSS?() (MEMBER? ? OR BAR? ? OR PIECE? ?) OR ROD OR RODS OR SHAFT OR SHAFTS OR CROSSBAR? ? OR BATTEN? ? OR BILLET? ? OR - LEVER? ?
S7	4832043	DETACH? OR REMOVE? ? OR REMOVING OR REMOVABLE OR SEPERAT? - OR SEPARABLE OR DISPLACE? OR MOBILE OR RELEASE? ? OR RELEASING OR RELEASABL? OR MOVE? ? OR MOVING OR MOVABLE OR DISCONNECT?
S8	2902	(S1 OR S2) AND S3 AND S4 AND (S5 OR S6) AND S7
S9	8	S8 AND IC=B42F
S10	8	IDPAT (sorted in duplicate/non-duplicate order)
S11	8	IDPAT (primary/non-duplicate records only)
S12	7028	(S1 OR S2) AND S4 AND (S5 OR S6) AND S7
S13	23	S12 AND IC=B42F
S14	15	S13 NOT S11
S15	15	IDPAT (sorted in duplicate/non-duplicate order)
S16	15	IDPAT (primary/non-duplicate records only)

File 347:JAPIO Dec 1976-2005/Dec(Updated 060404)  
(c) 2006 JPO & JAPIO

File 350:Derwent WPIX 1963-2006/UD=200646  
(c) 2006 The Thomson Corporation

11/5/2 (Item 2 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2006 The Thomson Corporation. All rts. reserv.

0008724864 - Drawing available  
WPI ACC NO: 1998-266235/199824  
XRPX Acc No: N1998-209957

**Paper binding equipment for filing vouchers, invoices and receipts - has clamp at lever free end consisting of slider with protruding knob and rectangular hole in grip protrusion which extends along one side edge of base table**

Patent Assignee: SATO H (SATO-I)

Inventor: SATO H

**Patent Family** (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
JP 10086575	A	19980407	JP 1996276783	A	19960911	199824 B

Priority Applications (no., kind, date): JP 1996276783 A 19960911

#### Patent Details

Number	Kind	Lan	Pg	Dwg	Filing	Notes.
JP 10086575	A	JA	7	9		

#### Alerting Abstract JP A

The equipment has a base table (1) for loading sheets. One end of a **lever** (2) is turnably supported at top left hand corner of the base table. A **spring** is extended when the free end of the **lever** is moved upwards. A **holder** (4) supports the sheets against the base table. When the **lever** free end is pushed downwards under the **spring** action, a **clamp** holds the **lever** in lower position.

The **clamp** provided at the **lever** free end has a slider with a protruding **knob** (21). In the **clamped** position of the **lever**, the slider engages a hole (18) provided in a grip protrusion (26) extending along one side edge of base table.

ADVANTAGE - Enables convenient usage. Avoids inadvertent **release** of sheets even if **lever** is pushed down accidentally.

**Title Terms/Index Terms/Additional Words:** PAPER; BIND; EQUIPMENT; FILE; VOUCHER; INVOICING; RECEIPT; **CLAMP**; **LEVER**; FREE; END; CONSIST; SLIDE; PROTRUDE; **KNOB**; RECTANGLE; HOLE; GRIP; EXTEND; ONE; SIDE; EDGE; BASE; TABLE

#### Class Codes

International Classification (Main): **B42F-013/06**

(Additional/Secondary): **B42F-009/00**

File Segment: EngPI; ;

DWPI Class: P76

✓

11/5/4 (Item 4 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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0006549406 - Drawing available  
WPI ACC NO: 1993-359527/199345  
XRPX Acc No: N1993-277599

**Drawer for storing catalogue cards - has button on drawer bottom, pressed to enable compression spring to eject metal rod passing through stack of cards**

Patent Assignee: KEWA OFFICE & LIBRARY PROD CO LTD (KEWA-N)

Inventor: WONG T

**Patent Family** (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
US 5257859	A	19931102	US 1991792163	A	19911114	199345 B

Priority Applications (no., kind, date): US 1991792163 A 19911114

#### **Patent Details**

Number	Kind	Lan	Pg	Dwg	Filing	Notes
US 5257859	A	EN	8	5		

#### **Alerting Abstract US A**

The drawer comprises a receptacle in which a hole is provided, and a back-up plate in which a hole is provided. the back-up plate is mounted on the receptacle. A **rod clamping -and- releasing** device is provided in which two holes are provided, the **rod clamping -and- releasing** device being mounted on the receptacle.

A **rod** passes through the receptacle, the back-up plate and the **rod clamping -and- releasing** device. The **rod clamping -and- releasing** device is further provided with two elongated holes, a pin and two extension **springs**.

**Title Terms/Index Terms/Additional Words:** DRAWER; STORAGE; CATALOGUE; CARD; **BUTTON** ; BOTTOM; PRESS; ENABLE; COMPRESS; **SPRING** ; EJECT; METAL; **ROD** ; PASS; THROUGH; STACK

#### **Class Codes**

International Classification (Main): **B42F-017/02**  
US Classification, Issued: 312190000, 312348500, 220535000, 402061000

File Segment: EngPI; ;  
DWPI Class: P76



11/5/5 (Item 5 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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0003992477

WPI ACC NO: 1987-087631/

**Swivelling holder for office file - has pivoting plate carrying one set of retainer bars , movable laterally to allow alignment**

Patent Assignee: KING JIM CO LTD (KING-N)

Inventor: OHMINATO K

**Patent Family** (2 patents, 2 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
DE 3610929	C	19870402	DE 3610929	A	19860402	198713 B
US 4815882	A	19890328	US 1987133210	A	19871214	198915 E

Priority Applications (no., kind, date): JP 1986926 U 19860108

#### Patent Details

Number	Kind	Lan	Pg	Dwg	Filing	Notes
DE 3610929	C	DE	4	4		
US 4815882	A	EN	5			

#### Alerting Abstract DE C

The swivel **holder** is for a file with a fixed support and fixed **retainer bars** . These are exposed by swivel **bars** fitted to a pivotal mounting plate facing the fixed **bar** support plate.

The pivotal plate (21) adjusts slightly along its pivot axis off a **spring** (26), to allow alignment of the ends of the **retainer bars** and engagement via lateral lugs and recesses at their overlapping engagement faces.

USE/ADVANTAGE - Office files, allowing improved handling and easier **bar** action.

#### Equivalent Alerting Abstract US A

The assembly comprises a base plate, and at least one first binding **rod** fixed to the base plate and having a cavity type first engager. A turnable plate is rotatably mounted to the base plate about an axis with respect to the base plate, and turnable between an open position and a closed position. At least one second binding **rod** is fixed to the turnable plate and has a **button** type second engager.

A **spring** is located along the axis for biasing the second engager into cooperative abutment with the first when the turnable plate is in the closed position. The at least one second binding **rod** is disengaged from the at least one first binding **rod** by **moving** the turnable plate together with the second binding **rod** in a direction along the axis against the biasing force of the **spring** .

USE - A turnable type binder assembly.

**Title Terms/Index Terms/Additional Words:** SWIVEL; HOLD; OFFICE; FILE; PIVOT ; PLATE; CARRY; ONE; SET; RETAIN; **BAR** ; **MOVE** ; LATERAL; ALLOW; ALIGN

#### Class Codes

International Classification (Main): **B42F-013/02**  
(Additional/Secondary): **B42F-013/20** , **B42F-013/24** , **B42F-003/02** , **B42F-003/04**

US Classification, Issued: 402034000, 402020000, 402030000, 402031000

File Segment: EngPI; ;  
DWPI Class: P76



11/5/8 (Item 8 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2006 The Thomson Corporation. All rts. reserv.

0001376591

WPI ACC NO: 1977-D5830Y/197718

Button operated sliding drawer index card holder - has pivot bar on each button with pins engaging perforated tabs on cards

Patent Assignee: ARLAC WERK HEIKO IP (ARLA-N); ARLAC-W HEIKO IPPEN (HEIK-N)  
; CONFON AG (CONF-N); NIVEAU AG (NIVE-N)

Inventor: HALM H

Patent Family (25 patents, 13 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
BE 849891	A	19770415				197718 B
AT 197609468	A	19771015				197744 E
DE 2647067	A	19780427	DE 2647067	A	19761019	197818 E
NL 197614486	A	19780421				197818 E
SE 197614128	A	19780516				197822 E
DK 197605590	A	19780612				197827 E
FR 2368370	A	19780623				197829 E
BR 197608788	A	19780725				197832 E
US 4100060	A	19780711	US 1977760260	A	19770118	197837 E
DE 2659994	A	19781109				197846 E
CA 1054954	A	19790522				197923 E
FR 2405823	A	19790615				197929 E
CA 1058530	A	19790717				197932 E
DE 2647067	B	19791004				197941 E
US 4175663	A	19791127	US 1978923388	A	19780710	197949 E
CH 614161	A	19791115				197950 E
SE 197906278	A	19800303				198012 E
NL 197908405	A	19800331				198016 E
DE 2659994	B	19800529	DE 2659994	A	19761019	198023 E
GB 1568978	A	19800611				198024 E
GB 1568979	A	19800611				198024 E
CH 621093	A	19810115				198110 E
NL 166886	B	19810515				198124 E
NL 170244	B	19820517				198223 E
IT 1072321	B	19850410				198538 E

Priority Applications (no., kind, date): DE 2659994 A 19761019; DE 2647067 A 19761019; DE 2741222 A 19770913

#### Patent Details

Number	Kind	Lan	Pg	Dwg	Filing	Notes
BE 849891	A	FR				
SE 197614128	A	SV				
BR 197608788	A	PT				
CA 1054954	A	EN				
CA 1058530	A	EN				
CH 614161	A	DE				
SE 197906278	A	SV				
CH 621093	A	DE				

#### Alerting Abstract BE A

An index card holder with an automatic card selection system has a compact flat casing and a cover and a set of press buttons marked with all the letters of the alphabet, and when a button is pressed, a drawer underneath slides open to expose the card selected by the button. The buttons operate corresponding horizontal pivot arms which rest on a cross bar acting as the pivot, and which are kept in position by a set of leaf springs at the other end. At this end, the arms carry selector pins in two rows which engage perforated tabs extending from the rear of the cards, each tab carrying one more perforation than the next.



Near the path of travel of these pins, at the base, is a drawer return rod acting as a spring and a drawer locking device which allows the drawer to open. At the front of the drawer is triangular lug which engages the card

**Title Terms/Index Terms/Additional Words:** **BUTTON** ; OPERATE; SLIDE; DRAWER; INDEX; CARD; HOLD; PIVOT; **BAR** ; PIN; ENGAGE; PERFORATION; TAB

**Class Codes**

International Classification (Main): A21C-009/00

(Additional/Secondary): B07C-005/00, B07C-009/00, **B42F-017/34** ,

G06C-007/02, G06K-013/14, G06K-021/04

US Classification, Issued: 209613000, 209610000, 209612000

File Segment: EngPI; EPI;

DWPI Class: T01; T04; P43; P76

16/5/1 (Item 1 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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0014654323 - Drawing available

WPI ACC NO: 2005-001903/200501

XRPX Acc No: N2005-001872

**Loose notebook leaflets binding tool uses operation plate having notch to secure and release lock plate of shaft in pushed and pulled position respectively**

Patent Assignee: KANEDA K (KANE-I)

**Patent Family** (1 patents, 1 countries)

Patent Application

Number	Kind	Date	Number	Kind	Date	Update
JP 3595814	B1	20041202	JP 2003271315	A	20030707	200501 B

Priority Applications (no., kind, date): JP 2003271315 A 20030707

#### Patent Details

Number	Kind	Lan	Pg	Dwg	Filing	Notes
JP 3595814	B1	JA	10	19		

#### Alerting Abstract JP B1

NOVELTY - An operation plate having a cam groove matching a cam protrusion of a **shaft** (2) **holding** a set of binding rings (4), rotates the **shaft** to closing and opening states against another set of binding rings (3) fixed on one edge of a plate (1) respectively when pushed and pulled by a **knob**. The operation plate has a notch that secures and **releases** a lock plate (9) of **shaft** in pushed and pulled position respectively.

USE - For binding several loose leaflets such as sheets so as to form notebook.

ADVANTAGE - The closing of the binding rings is maintained reliably. The insertion of the loose notebook leaflet to the binding rings is enabled easily and dropping off of the leaflet is prevented.

DESCRIPTION OF DRAWINGS - The figure shows a partially sectioned view of the binding tool.

- 1 plate
- 2 **shaft**
- 3,4 binding rings
- 9 lock plate
- 14 securing portion


**Title Terms/Index Terms/Additional Words:** LOOSE; LEAFLET; BIND; TOOL; OPERATE; PLATE; NOTCH; SECURE; **RELEASE** ; LOCK; **SHAFT** ; PUSH; PULL; POSITION; RESPECTIVE

#### Class Codes

International Classification (Main): **B42F-013/26**

File Segment: EngPI; ;

DWPI Class: P76



16/5/2 (Item 2 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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0013485709 - Drawing available  
WPI ACC NO: 2003-577906/  
Related WPI Acc No: 2001-457658  
XRPX Acc No: N2003-459344

**Long jawed clamp for sheet materials has one jaw extending beyond the other to form straight or curved lead in for a sheet and is operated by withdrawal of a latch lever around the top of the jaws**

Patent Assignee: ARNOS AUSTRALIA PTY LTD (ARNO-N)

Inventor: HENRY R J W

**Patent Family** (2 patents, 100 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
WO 2003062649	A1	20030731	WO 2002AU1734	A	20021220	200354 B
AU 2002351868	A1	20030902	AU 2002351868	A	20021220	200422 E

Priority Applications (no., kind, date): AU 2002114 A 20020123

#### Patent Details

Number	Kind	Lan	Pg	Dwg	Filing	Notes
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WO 2003062649	A1	EN	16	3		
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National Designated States, Original: AE AG AL AM AT AU AZ BA BB BG BR BY  
BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID  
IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ  
NO NZ OM PH PL PT RO RU SC SD SE SG SK SL TJ TM TN TR TT TZ UA UG US UZ  
VC VN YU ZA ZM ZW

Regional Designated States, Original: AT BE BG CH CY CZ DE DK EA EE ES FI  
FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SI SK SL SZ TR TZ  
UG ZM ZW

AU 2002351868 A1 EN Based on OPI patent WO 2003062649

#### Alerting Abstract WO A1

NOVELTY - The **clamp** has jaws (2 & 4) one of which is extended by 15 - 20 mm to form a lead in (2b) for a sheet to be **clamped**. When closed the jaws **clamp** together (2a & 4a) and are **released** by withdrawal of latch **lever** (26) and channel section (12a). The **clamp** may also have a stop **button** for the **clamp** when mounted in a racking system.

USE - To **clamp** sheets of material together.

ADVANTAGE - Lead in helps user to enter sheets into **clamp**.

DESCRIPTION OF DRAWINGS - Section through open **clamp**

2 Extended jaw

2a **Clamp** bead

2b Lead in

4 Shorter jaw

4a **Clamp** bead.

**Title Terms/Index Terms/Additional Words:** LONG; JAW; **CLAMP**; SHEET;  
MATERIAL; ONE; EXTEND; FORM; STRAIGHT; CURVE; LEAD; OPERATE; WITHDRAW;  
LATCH; **LEVER**; TOP

#### Class Codes

International Classification (Main): F16B-002/10

(Additional/Secondary): A47B-097/02, A47B-097/022, A47F-007/16,

A47F-007/166, B42D-017/00, B42D-017/000, **B42F-015/06**, **B42F-015/066**

File Segment: EngPI; ;

DWPI Class: P25; P27; P76; Q61

16/5/3 (Item 3 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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0009549949 - Drawing available

WPI ACC NO: 1999-495868/199942

XRPX Acc No: N1999-369523

**Transverse button compression bar for keeping papers within files e.g. a lever arch file**

Patent Assignee: LECO STATIONERY MFG CO LTD (LECO-N)

Inventor: PI J B

**Patent Family** (4 patents, 28 countries)

Patent		Application					
Number	Kind	Date	Number	Kind	Date	Update	
EP 941870	A2	19990915	EP 1999301763	A	19990309	199942	B
NO 199901133	A	19990913	NO 19991133	A	19990309	199947	E
AU 199917285	A	19990930	AU 199917285	A	19990215	199952	E
CN 1231239	A	19991013	CN 1999102066	A	19990305	200008	E

Priority Applications (no., kind, date): GB 19985122 A 19980310

#### Patent Details

Number	Kind	Lan	Pg	Dwg	Filing	Notes
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EP 941870	A2	EN	11	10		
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Regional Designated States,Original: AL AT BE CH CY DE DK ES FI FR GB GR  
IE IT LI LT LU LV MC MK NL PT RO SE SI

#### Alerting Abstract EP A2

NOVELTY - There is an arm (22), including a boss (25) for flexing the **rods**, with a bore through which the **rod** passes so that the arm is pivotable. There are two sets of lands (32), each set attached to the base between the boss and the respective openings. The lands provide a fulcrum about which each **rod** can pitch so that the flexing of the **rods** by the boss causes the spacing between the **rods** in the openings to alter between a narrow spacing in which the **rods** can grip prongs extending through the openings and a wider spacing in which the **rods** do not grip the prongs.

USE - For **holding** papers in a file.

ADVANTAGE - Prevents the arm **detaching** from the base and is easier to operate.

DESCRIPTION OF DRAWINGS - The figure shows a perspective view of the **bar**

(22) arm  
(25) boss  
(32) lands

**Title Terms/Index Terms/Additional Words:** TRANSVERSE; **BUTTON** ; COMPRESS;  
**BAR** ; KEEP; PAPER; FILE; **LEVER** ; ARCH


#### Class Codes

International Classification (Main): **B42F-013/36**

(Additional/Secondary): **B42F-013/20**

File Segment: EngPI; ;

DWPI Class: P76



16/5/4 (Item 4 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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0009058592 - Drawing available

WPI ACC NO: 1998-112094/

XRPX Acc No: N1998-089822

**Storage housing for credit cards - has individual cards pushed out from front of housing by pivoted wipers operated via displacement rods**

Patent Assignee: FISCHER GMBH ARTUR (FISA); FISCHERWERKE FISCHER GMBH ARTUR (FISA)

Inventor: PLOCHER B

**Patent Family** (15 patents, 29 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	
EP 823226	A2	19980211	EP 1997110925	A	19970702	199811	B
DE 19632215	A1	19980212	DE 19632215	A	19960809	199812	E
JP 10129756	A	19980519	JP 1997216041	A	19970811	199830	E
BR 199704300	A	19981222	BR 19974300	A	19970808	199906	E
KR 1998018402	A	19980605	KR 199737428	A	19970731	199922	E
CZ 199702010	A3	19990616	CZ 19972010	A	19970625	199929	E
US 5960944	A	19991005	US 1997900594	A	19970725	199948	E
SG 67986	A1	19991019	SG 19972432	A	19970710	199950	E
JP 2989159	B2	19991213	JP 1997216041	A	19970811	200004	E
CZ 286447	B6	20000412	CZ 19972010	A	19970625	200026	E
KR 215604	B1	19990816	KR 199737428	A	19970731	200104	E
CN 1174008	A	19980225	CN 1997117344	A	19970808	200171	E
EP 823226	B1	20020206	EP 1997110925	A	19970702	200211	E
DE 59706283	G	20020321	DE 59706283	A	19970702	200221	E
			EP 1997110925	A	19970702		
ES 2171781	T3	20020916	EP 1997110925	A	19970702	200270	E

Priority Applications (no., kind, date): EP 1997110925 A 19970702; DE 19632215 A 19960809

#### Patent Details

Number	Kind	Lan	Pg	Dwg	Filing	Notes
EP 823226	A2	DE	7	3		
Regional Designated States, Original: AL AT BE CH DE DK ES FI FR GB GR IE IT LI LT LU LV MC NL PT RO SE SI						
DE 19632215	A1	DE	5	3		
JP 10129756	A	JA	6			
BR 199704300	A	PT				
KR 1998018402	A	KO		3		
SG 67986	A1	EN				
JP 2989159	B2	JA	6			Previously issued patent JP 10129756
CZ 286447	B6	CS				Previously issued patent CZ 9702010
EP 823226	B1	DE				
Regional Designated States, Original: AT BE DE ES FR GB IT NL PT SE						
DE 59706283	G	DE				Application EP 1997110925
						Based on OPI patent EP 823226
ES 2171781	T3	ES				Application EP 1997110925
						Based on OPI patent EP 823226

#### Alerting Abstract EP A2

The housing (10) has a number of slits for insertion of the credit cards, which are extracted individually via wipers (22). The wipers are located at the rear of the housing. Each wiper is pivoted to push the respective card out of the housing upon operation of a corresponding displacement rod (38). The wipers and the push-rods are formed integral with one another via an injection moulded component.

USE - For holding several credit cards, detachable holder to put housing in glove compartment of car.

ADVANTAGE - Simple extraction of individual credit cards, wiper and

**displacement rod** produced as single piece injection moulded component, connectors to connect several housings together.

**Title Terms/Index Terms/Additional Words:** STORAGE; HOUSING; CREDIT; CARD; INDIVIDUAL; PUSH; FRONT; PIVOT; WIPE; OPERATE; **DISPLACEMENT ; ROD**

**Class Codes**

International Classification (Main): A45C-011/18, A45C-011/24, B65D-083/00, B65D-083/08, B65D-083/12

(Additional/Secondary): A45C-011/00, B42D-015/00, **B42F-017/08** , **B42F-017/30** , B60R-007/06, G06K-019/00

US Classification, Issued: 206039400, 206449000, 221232000

File Segment: EngPI; EPI;

DWPI Class: T04; P24; P76; Q17; Q34

Manual Codes (EPI/S-X): T04-X

16/5/6 (Item 6 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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0006764441 - Drawing available  
WPI ACC NO: 1994-148758/199418  
XRPX Acc No: N1994-116777

**Document folder with non-authorised access exclusion facility - has  
adhesion layer applied on internal leaf corresp. to notch which is  
overlapped by translucent film diaphragm**

*Not relevant*

Patent Assignee: INQUEST OFFICERS TRAINING INST (INQU-R)

Inventor: VANDER M B

**Patent Family** (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
SU 1796491	A1	19930223	SU 4827195	A	19900521	199418 B

Priority Applications (no., kind, date): SU 4827195 A 19900521

#### Patent Details

Number	Kind	Lan	Pg	Dwg	Filing	Notes
SU 1796491	A1	RU	2	2		

#### Alerting Abstract SU A1

The folder contains a cover (1) with leaves (2,3) and an internal flap (5). One of the leaves (2,3) is now fitted with a notch overlapped by a translucent film diaphragm (4).

Documents are put on the lower flaps of the cover (1), the upper and lower leaves (2) are closed, the internal flap (5) is lowered on the latter, the leaf (3) is put over the flap (5) and **fastened by buttons** (7). After that text and a signature are written down on the film diaphragm (4) by using a sharpened **rod**. In the text area, adhesion engagement of the film and flap coating takes place, and the text and signatures become visible and are retained until the leaf (3) is **detached** from the flap (5).

USE/ADVANTAGE - For maintaining documents. Prevention of document opening without control. Bul.7/23.2.93

**Title Terms/Index Terms/Additional Words:** DOCUMENT; FOLDER; NON; AUTHORISE; ACCESS; EXCLUDE; FACILITY; ADHESIVE; LAYER; APPLY; INTERNAL; LEAF; CORRESPOND; NOTCH; OVERLAP; TRANSLUCENT; FILM; DIAPHRAGM

#### Class Codes

International Classification (Main): **B42F-013/00**

File Segment: EngPI; ;  
DWPI Class: P76

16/5/8 (Item 8 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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*plastic but  
not relevant*

0004057428

WPI ACC NO: 1987-158226/198723

Releasable **paper sheet clip** - has spreading levers hinged to clip shank end, with levers and clip injection moulded of plastics

Patent Assignee: LORBER K (LORB-I)

Inventor: LORBER K

**Patent Family** (10 patents, 17 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
DE 3623766	C	19870611	DE 3623766	A	19860715	198723 B
EP 253154	A	19880120	EP 1987108860	A	19870620	198803 E
NO 198702928	A	19880208				198811 E
FI 198702996	A	19880116				198814 E
DK 198703475	A	19880116				198815 E
US 4802263	A	19890207	US 198769474	A	19870702	198908 E
EP 253154	B	19901010	EP 1987108860	A	19870620	199041 E
DE 3765478	G	19901115	DE 3623766	A	19860715	199047 E
ES 2018209	B	19910401				199119 E
NO 172732	B	19930524	NO 19872928	A	19870714	199326 E

Priority Applications (no., kind, date): DE 3623766 A 19860715

#### Patent Details

Number	Kind	Lan	Pg	Dwg	Filing	Notes
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DE 3623766	C	DE	6	6		
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EP 253154	A	DE				
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Regional Designated States,Original: AT BE CH DE ES FR GB GR IT LI LU NL SE

US 4802263	A	EN	6			
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EP 253154	B	EN				
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Regional Designated States,Original: AT BE CH DE ES FR GB GR IT LI LU

NO 172732	B	NO				Previously issued patent NO 8702928
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#### Alerting Abstract DE C

The paper clip is of U-section, its leg ends forming two longitudinal clip edges pressed flexibly together using **levers** hinged to the edges to splay the clip apart. The clip (11) and **levers** (22) are plastics injection mouldings, the **levers** being hinged to the clip endfaces.

ADVANTAGE - Easy mfr. and use, with efficient paper sheet **clamping**

#### Equivalent Alerting Abstract US A

A clip is constructed as a cross-sectionally roughly U-shaped profile. The profile has sides terminating in leg ends defining two longitudinal edges of the clip, the clip being resiliently biased to bring the longitudinal edges toward one another. The longitudinal edges have integrally moulded pins extending in opposite directions from front ends of the longitudinal edges.

Two **levers** are operable for spreading apart the longitudinal edges of the clip. The **levers** have lateral slits engageable on the pins by snapping the **levers** on to the pins in a push-**button**-like manner. The **levers** are articulated to the clip at the pins at the front ends of the longitudinal edges. The **levers** are engaged against the sides of the clip to spread the longitudinal edges.

USE - For **holding** paper sheets.

**Title Terms/Index Terms/Additional Words:** **RELEASE** ; PAPER; SHEET; CLIP; SPREAD; **LEVER** ; HINGE; SHANK; END; INJECTION; MOULD; PLASTICS

#### Class Codes

International Classification (Main): **B42F-001/10**



(Additional/Secondary): B42F-001/02 , B42F-015/04 , F16B-002/22  
US Classification, Issued: 024067500, 024535000, 024568000

File Segment: EngPI; ;  
DWPI Class: P76; Q61

16/5/9 (Item 9 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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0003148113

WPI ACC NO: 1984-244430/198440

**Card index with actuating levers - has several plastics levers in one piece, joined by elastic zones**

Patent Assignee: KOLLER W (KOLL-I)

Inventor: KOLLER W

**Patent Family** (2 patents, 10 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
DE 3310515	A	19840927	DE 3310515	A	19830323	198440 B
EP 120280	A	19841003	EP 1984101722	A	19840220	198440 E

Priority Applications (no., kind, date): DE 3310515 A 19830323

#### Patent Details

Number	Kind	Lan	Pg	Dwg	Filing	Notes
DE 3310515	A	DE	11	8		
EP 120280	A	DE				

Regional Designated States,Original: AT BE CH DE FR GB IT LI NL SE

#### Alerting Abstract DE A

The card index has **lever** -operated lugs—**holding** and/or **moving** the cards, each **lever** having an elastic bending zone. Two or more **levers** (6) are formed in one piece and of plastics. They are joined together by the bending zone (9).

The latter is typically adjacent to a **button** (7) on each **lever**, which can also have an additional bending zone. There can also be an integrated torsion **lever** (13) at each zone, bearing against the housing (1) at its free end (14).

ADVANTAGE - Simple production and installation of **levers**.


**Title Terms**/Index Terms/Additional Words: CARD; INDEX; ACTUATE; **LEVER** ;  
PLASTICS; ONE; PIECE; JOIN; ELASTIC; ZONE

#### Class Codes

International Classification (Main): **B42F-017/34**

File Segment: EngPI; ;

DWPI Class: P76



16/5/10 (Item 10 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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0002991495

WPI ACC NO: 1984-077348/198413

**Telephone index for alphabetic list of addresses and numbers - in which on pressing selector button , respective lever pivots to engage selecting hook with appropriate index cards**

Patent Assignee: TAI PUN PLASTIC MAN (TAIP-N)

Inventor: MO C N K

**Patent Family** (2 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
GB 2126530	A	19840328	GB 198221811	A	19820728	198413 B
			GB 198320348	A	19830728	
GB 2126530	B	19860108	GB 198221811	A	19820728	198602 E
			GB 198320348	A	19830728	

Priority Applications (no., kind, date): GB 198320348 A 19830728

#### Patent Details

Number	Kind	Lan	Pg	Dwg	Filing	Notes
GB 2126530	A	EN	8	10		

#### Alerting Abstract GB A

The telephone index comprises a drawer **holding** stack of index cards and selector **buttons** for selecting the desired card from the stack. The **buttons** are separate from pivoted **levers** , the pivoting of which causes the drawer to open to reveal the selected card. This enables the selector **buttons** , if desired, to be supported in a tray which can be **removed** from the housing with the selector **buttons** being, desirably, individually **removable** from the tray.

This facilitates manufacture and enables the selector **buttons** to be arranged in a manner desired by the user. For example, the **buttons** in the tray can be vertically rather than horizontally arranged.

**Title Terms/Index Terms/Additional Words:** TELEPHONE; INDEX; ALPHABET; LIST; ADDRESS; NUMBER; PRESS; SELECT; **BUTTON** ; RESPECTIVE; **LEVER** ; PIVOT; ENGAGE; HOOK; APPROPRIATE; CARD

#### Class Codes

(Additional/Secondary): **B42F-017/34**

File Segment: EngPI; EPI;

DWPI Class: W01; P76

Manual Codes (EPI/S-X): W01-C01X

16/5/11 (Item 11 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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0001777069

WPI ACC NO: 1979-C0398B/197910

**Filing cabinet for newspapers and periodicals - has pocket for each item which can be raised by depressing knob**

Patent Assignee: FA RECKNAGEL H (RECK-N)

Inventor: RECKNAGEL C

**Patent Family** (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
DE 2737620	A	19790301	DE 2737620	A	19770820	197910 B
			DE 2737620	A	19770820	

Priority Applications (no., kind, date): DE 2737620 A 19770820

**Alerting Abstract DE A**

Newspapers and periodicals are stored in a filing cabinet containing a number of pockets (3) mounted side by side. Each pocket is mounted between two vertical guide rails and is supported on a roller fixed to the end of a horizontal lever (2).

A vertical rod with a knob (1) can be pressed down onto one end of the lever so that the pocket (3) is raised to provide access to its contents. The pocket (3) is held in the raised position by a catch (4) which can be released by depressing a second knob (5) attached to a rod (6).

**Title Terms/Index Terms/Additional Words:** FILE; CABINET; NEWSPAPER; PERIOD; POCKET; ITEM; CAN; RAISE; DEPRESS; **KNOB**

**Class Codes**

(Additional/Secondary): **B42F-007/14**

File Segment: EngPI; ;  
DWPI Class: P76

16/5/12 (Item 12 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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0001247644

WPI ACC NO: 1976-K7674X/197645

Holding system for file sheets - uses sheet holding rods located at ends in lined up hole edges with closure

Patent Assignee: HUNKE & JOCHHEIM (HUNK-N)

Patent Family (2 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
DE 2516816	A	19761028	DE 2516816	A	19750415	197645 B
DE 2516816	C	19840830	DE 2516816	A	19750415	198436 E

Priority Applications (no., kind, date): DE 2516816 A 19750415

**Alerting Abstract** DE A

The storage and holding system for album or portfolio sheets has a detachable rod attachment to one of the sheets into three lines of holes, which can be aligned by moving a sliding member (26). One end of the rods (14) is corresponds with a front and a rear hole and with pairs of lined up holes. Between both these holes there is at least one slider to cover the holes in the rear when the slider knob (33) is moved. The other end of each rod freed by its movement through an uncovered hole in the rear hole ledge is pushed through the aligned holes, through the file sheet to one of another row of holes at the other end.

**Title Terms/Index Terms/Additional Words:** HOLD; SYSTEM; FILE; SHEET; ROD ; LOCATE; END; LINING; UP; HOLE; EDGE; CLOSURE

**Class Codes**

International Classification (Main): B42F-011/02

File Segment: EngPI; ;

DWPI Class: P76

16/5/15 (Item 15 from file: 347)  
DIALOG(R)File 347:JAPIO  
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06257000 \*\*Image available\*\*  
PATCH APPLICATOR

PUB. NO.: 11-198579 [JP 11198579 A]  
PUBLISHED: July 27, 1999 (19990727)  
INVENTOR(s): OKITSU AKINORI  
OSATO HIDEO  
APPLICANT(s): KOKUYO CO LTD  
APPL. NO.: 10-001269 [JP 981269]  
FILED: January 07, 1998 (19980107)  
INTL CLASS: B42F-013/00

#### ABSTRACT

PROBLEM TO BE SOLVED: To provide a compact patch applicator which requires only a small storage space.

SOLUTION: This patch applicator 10 is constructed of a pressing knob 11 with a support shaft 16 for holding a patch P in a laminar shape and a freely detachable application base 12 mounted on the pressing knob 11. Further, on the tip of the support shaft 16, a bulged part 34 which can be engaged with the patch P is formed, and a pedestal is provided on one of the end sides of the application base 12 and a storage part 40 which can store the patch P is provided on the other end side. When attaching the patch P to a document, the document is loaded on the pedestal and pressure is applied to the pressing knob 11. Thus it is possible to attach the patch P around the punched holes of a document. When the patch applicator 10 is not used, the patch P can be covered by storing the support shaft 16 retaining the patch P into the storage part 40.

COPYRIGHT: (C)1999,JPO

Set	Items	Description
S1	344608	LOCK?? OR LOCKING
S2	303444	FASTEN? OR CLAMP? ? OR HOLDER? ?
S3	29835	LATCH?? OR LATCHING
S4	71623	HOOK OR HOOKS
S5	192394	PIN OR PINS
S6	347045	HOOKED OR HOOKING OR CLASP?? OR CLASPING OR CATCH?? OR CAT- CHING OR GRASP?? OR GRASPING
S7	2464022	CLAMP? OR HOLDING OR HELD OR HOLDER? ?
S8	886446	SPRING? OR SPRUNG
S9	251360	BUTTON? ? OR TRIGGER? ? OR KNOB OR KNOBS OR NUB OR NUBS
S10	884544	RAIL OR RAILS OR BAR OR BARS
S11	598110	CROSS?() (MEMBER? ? OR BAR? ? OR PIECE? ?) OR ROD OR RODS OR SHAFT OR SHAFTS OR CROSSBAR? ? OR BATTEN? ? OR BILLET? ? OR - LEVER? ?
S12	6271865	DETACH? OR REMOVE? ? OR REMOVING OR REMOVABLE OR SEPERAT? - OR SEPARABLE OR DISPLACE? OR MOBILE OR RELEASE? ? OR RELEASING OR RELEASABL? OR MOVE? ? OR MOVING OR MOVABLE OR DISCONNECT?
S13	2459546	GUIDE? ? OR GUIDING OR SLIDE? ? OR SLIDING OR SWING? OR PI- VOT? OR AXIAL? OR GLIDE? ? OR GLIDING OR SLIP? ? OR SLIPPED OR SLIPPING
S14	1395997	BINDING? ? OR BOOKBINDING? ?
S15	1436988	BINDER? ? OR COVER? ? OR FOLDER? ?
S16	6393178	CASE OR CASES OR HOLDER? ? OR PORTFOLIO? ?
S17	62	(S1 OR S2) AND S3 AND S4 AND S8 AND S9 AND (S10 OR S11) AND S12
S18	58	S17 AND (S14 OR S15 OR S16)
S19	27	S18 NOT PY>2003
S20	27	RD (unique items)
S21	3687	(S1 OR S2 OR S3 OR S4 OR S6 OR S7) AND S8 AND S9 AND (S10 - OR S11) AND S12
S22	3052	S21 AND (S14 OR S15 OR S16)
S23	30	(S1 OR S2 OR S3 OR S4 OR S6 OR S7) (10N) S8 (10N) S9 AND (- S10 OR S11) AND S12 AND (S14 OR S15 OR S16)
S24	30	S23 NOT S20
S25	22	S24 NOT PY>2003
S26	21	RD (unique items)
File	2:INSPEC	1898-2006/Jul W3 (c) 2006 Institution of Electrical Engineers
File	6:NTIS	1964-2006/Jul W3 (c) 2006 NTIS, Intl Cpyrght All Rights Res
File	8:EI Compendex(R)	1970-2006/Jul W3 (c) 2006 Elsevier Eng. Info. Inc.
File	18:Gale Group F&S Index(R)	1988-2006/Jul 24 (c) 2006 The Gale Group
File	19:Chem.Industry Notes	1974-2006/ISS 200629 (c) 2006 Amer.Chem.Soc.
File	25:Weldasearch	19662006/Jun (c) 2006 TWI Ltd
File	30:AsiaPacific	1985-2006/Jul 23 (c) 2006 Aristarchus Knowledge Indus.
File	35:Dissertation Abs Online	1861-2006/Jun (c) 2006 ProQuest Info&Learning
File	50:CAB Abstracts	1972-2006/Jun (c) 2006 CAB International
File	51:Food Sci.&Tech.Abs	1969-2006/Jul W4 (c) 2006 FSTA IFIS Publishing
File	54:FOODLINE(R): Market	1979-2006/Jul 25 (c) 2006 LFRA
File	63:Transport Res(TRIS)	1970-2006/Jun (c) fmt only 2006 Dialog
File	65:Inside Conferences	1993-2006/Jul 24 (c) 2006 BLDSC all rts. reserv.
File	67:World Textiles	1968-2006/Jul (c) 2006 Elsevier Science Ltd.

File 81:MIRA - Motor Industry Research 2001-2006/May  
     (c) 2006 MIRA Ltd.  
 File 92:IHS Intl.Stds.& Specs. 1999/Nov  
     (c) 1999 Information Handling Services  
 File 94:JICST-EPlus 1985-2006/Apr W4  
     (c)2006 Japan Science and Tech Corp(JST)  
 File 95:TEME-Technology & Management 1989-2006/Jul W4  
     (c) 2006 FIZ TECHNIK  
 File 96:FLUIDEX 1972-2006/May  
     (c) 2006 Elsevier Science Ltd.  
 File 99:Wilson Appl. Sci & Tech Abs 1983-2006/Jun  
     (c) 2006 The HW Wilson Co.  
 File 103:Energy SciTec 1974-2006/Jun B1  
     (c) 2006 Contains copyrighted material  
 File 105:AESIS 1851-2001/Jul  
     (c) 2001 Australian Mineral Foundation Inc  
 File 111:TGG Natl.Newspaper Index(SM) 1979-2006/Jul 12  
     (c) 2006 The Gale Group  
 File 118:ICONDA-Intl Construction 1976-2006/Jun  
     (c) 2006 Fraunhofer-IRB  
 File 144:Pascal 1973-2006/Jul W1  
     (c) 2006 INIST/CNRS  
 File 211:Gale Group Newsearch(TM) 2006/Jul 24  
     (c) 2006 The Gale Group  
 File 240:PAPERCHEM 1967-2006/Jul W4  
     (c) 2006 Elsevier Eng. Info. Inc.  
 File 248:PIRA 1975-2006/Jul W1  
     (c) 2006 Pira International  
 File 249:Mgt. & Mktg. Abs. 1976-2006Jul W3  
     (c) 2006 Pira International  
 File 315:ChemEng & Biotec Abs 1970-2006/Jun  
     (c) 2006 DECHEMA  
 File 323:RAPRA Rubber & Plastics 1972-2006/Jul  
     (c) 2006 RAPRA Technology Ltd  
 File 399:CA SEARCH(R) 1967-2006/UD=14505  
     (c) 2006 American Chemical Society  
 File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec  
     (c) 2006 The Thomson Corp  
 File 484:Periodical Abs Plustext 1986-2006/Jul W3  
     (c) 2006 ProQuest  
 File 583:Gale Group Globalbase(TM) 1986-2002/Dec 13  
     (c) 2002 The Gale Group



D

**IDENTIQUES RELIEES DE MANIERE ARTICULEE ET AMELIORATIONS RELATIVES**  
Patent Applicant/Assignee:  
500 GROUP INC, Harbor Square, 700 Canal Street, Stamford, CT 06902, US,  
US (Residence), US (Nationality)  
Inventor(s):  
TIRAMANI Paolo M B, 28 Dairy Road, Greenwich, CT 06830, US,  
BOZAK John A, 159 East Elm Street, Greenwich, CT 06830, US,  
HAM Soohyun, 910 Hope Street, Stamford, CT 06907, US,  
Legal Representative:  
RADACK David V (agent), Eckert Seamans Cherin & Mellott, LLC, 44th Floor,  
600 Grant Street, Pittsburgh, PA 15219, US,  
Patent and Priority Information (Country, Number, Date):  
Patent: WO 200156422 A1 20010809 (WO 0156422)  
Application: WO 2001US3483 20010202 (PCT/WO US0103483)  
Priority Application: US 2000497714 20000204  
Designated States:  
(Protection type is "patent" unless otherwise stated - for applications  
prior to 2004)  
AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM DZ EE  
ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT  
LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM  
TR TT TZ UA UG UZ VN YU ZA ZW  
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR  
(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG  
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM  
Main International Patent Class (v7): A45C-005/14  
International Patent Class (v7): A45C-013/10; A45C-013/26; B29C-045/00;  
**E05B-065/52**  
Publication Language: English  
Filing Language: English  
Fulltext Availability:  
Detailed Description  
Claims  
Fulltext Word Count: 7493  
English Abstract  
A containment article, such as a luggage article (300) is provided which  
comprises a pair of substantially identical plastic shells (302, 303)  
which are hingedly connected to each other. The invention also includes  
an improved telescoping handle assembly (360) for an article, such as  
wheeled luggage as well as a unique and novel safety latch (320, 324) for  
a containment article.  
French Abstract  
L'invention concerne un article contenant tel qu'un bagage (300)  
comprenant une paire de coques en plastique (302, 303) sensiblement  
identiques lesquelles sont reliees de facon articulee l'une a l'autre.  
L'invention concerne egalement un ensemble poignee telescopique ameliore  
(360) pour un article, tel qu'un bagage a roues de meme qu'un dispositif  
de verrouillage de securite (320, 324) unique et nouveau destine a un  
article contenant.  
Legal Status (Type, Date, Text)  
Publication 20010809 A1 With international search report.  
Examination 20011115 Request for preliminary examination prior to end of  
19th month from priority date  
...International Patent Class (v7): **E05B-065/52**  
Fulltext Availability:  
Claims  
Claim  
... including  
external locking means for said telescoping handle assembly,

said external locking means comprising:  
a **movable** button operatively associated with said gripping member; and  
a locking hook mounted on an outside...

...hook mounted on an outside surface of said article, whereby selective engagement of said movable **button** can enable - 21 movement of said telescoping handle assembly back and forth between a retracted...

...wherein  
said locking hook includes a flange having an upper pilot surface and said movable **button** includes a flange having a lower pilot surface that  
is complementary to said upper pilot surface of said locking hook;  
said movable **button** is **spring** biased into an engaging position and is movable manually against said **spring** bias to a disengaging position when it is desired to move said handle from said...

...handle assembly  
from said extended position to said retracted position, said flange of said movable **button** can slide past said flange of said **locking** hook without the need to manually engage said movable **button** due to the construction and arrangement of said lower pilot surface of said movable **button** and said upper pilot surface of said **locking** hook .

29 The telescoping handle assembly of Claim 28, wherein  
said **locking** hook is integrally formed with a bushing that receives one of said slidable male tubes.

30...

...wherein  
said first shell and said second shell are made of plastic.

35 A safety **latch** for joining two shells of a containment article, said safety **latch** having (i) a first end which is pivotably mounted to a first of said shells is compressed by movement of said tab such that said internal flange can be **moved** clear of said rod.

39 The safety latch article of Claim 35, wherein  
said first...

22/5,K/27 (Item 27 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00784839 \*\*Image available\*\*

**A METHOD FOR CONTROL OF IN AND OUT PASSAGE BY MEANS OF A LOCKING SYSTEM, A LOCKING SYSTEM FOR PERFORMING THE METHOD AND A MOTOR-LOCK INTEGRATED INTO SAID LOCKING SYSTEM**

**PROCEDE DE COMMANDE D'ENTREE ET DE SORTIE AU MOYEN D'UN SYSTEME DE VERROUILLAGE, SYSTEME DE VERROUILLAGE METTANT CE PROCEDE EN APPLICATION ET VERROU MOTORISE INTEGRE DANS LEDIT SYSTEME DE VERROUILLAGE**

Patent Applicant/Assignee:

ELECTEC SYSTEM AKTIEBOLAG, Box 307, S-662 27 Amal, SE, SE (Residence), SE (Nationality), (For all designated states except: US)

Patent Applicant/Inventor:

GUSTAFSSON Niclas, Elisebergsgatan 29, S-662 35 Amal, SE, SE (Residence), SE (Nationality), (Designated only for: US)

Legal Representative:

HYNELL Magnus (et al) (agent), Hynell Patenttjanst AB, Patron Carls Vag 2, S-683 40 Hagfors/Uddeholm, SE,

Patent and Priority Information (Country, Number, Date):

22/5,K/25 (Item 25 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00833393 \*\*Image available\*\*

**GRAVITY-SENSITIVE LATCH**

**VERROU SENSIBLE A LA GRAVITE**

Patent Applicant/Assignee:

SOUTHCO INC, 210 North Brinton Lake Road, Concordville, PA 19331, US, US  
(Residence), US (Nationality)

Inventor(s):

JI Lianli, 115 Woodmint Drive, Westchester, PA 19380, US,  
STRAKA Robert, 8 East High Street, Phoenixville, PA 19460, US,  
CLISHAM Gerry, 1859 Huntsman Lane, Westchester, PA 19382, US,

Legal Representative:

NGO Steve H (et al) (agent), Paul and Paul, 2900 Two Thousand Market  
Street, Philadelphia, PA 19103, US,

Patent and Priority Information (Country, Number, Date):

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Priority Application: US 2000188287 20000307

Designated States:

(Protection type is "patent" unless otherwise stated - for applications  
prior to 2004)

MX

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

Main International Patent Class (v7): **E05C-019/10**

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 8600

**English Abstract**

The present invention is a gravity-sensitive latch. The latch includes a pendulum (300) pivotally secured between the actuating button (200) or handle (alternative embodiment) and the pawl (400). When the latch is in a first position, gravity acting on the pendulum rotates the pendulum so that it abuts the button or handle, permitting actuation of the latch. When the latch is in a second orientation, gravity acting on the pendulum rotates the pendulum away from the button or handle, thereby preventing actuation of the latch. The latch may use a wide variety of buttons, handles, or pawl/keeper combinations.

**French Abstract**

L'invention concerne un verrou sensible a la gravite, qui comprend une pendule articulee de maniere a pivoter entre le bouton ou poignee d'ouverture-fermeture et le cliquet. Lorsque le verrou se trouve dans une premiere position, la gravite agissant sur la pendule fait pivoter cette derniere et l'entraîne a proximite du bouton ou de la poignee, ce qui permet l'ouverture du verrou. Lorsque le verrou se trouve dans une seconde position, la gravite agissant sur la pendule fait pivoter cette derniere et l'eloigne du bouton ou de la poignee, ce qui empeche l'ouverture du verrou. Le verrou de l'invention peut se decliner en differentes combinaisons mettant en oeuvre des boutons, poignees, ou cliquets-loquets.

Legal Status (Type, Date, Text)

Publication 20010913 A2 Without international search report and to be  
republished upon receipt of that report.

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Examination 20021017 Request for preliminary examination prior to end of  
19th month from priority date  
Main International Patent Class (v7): **E05C-019/10**  
Fulltext Availability:  
Detailed Description

Detailed Description

... push the pendulum 300 rearward. The pawlretaining arm 700b will  
thereby also be pushed rearward, **releasing** the pawl 400b to rotate  
under spring pressure towards its unlatched position. The keeper 600b...  
portion of the hook 458c includes a ramped portion 460c. The pawl pivots  
between a **latched** position wherein the lower end 456c is rearward, and  
an unlatched position wherein the lower...

...456c forward towards its unlatched position.

The pawl 400c is spring-biased towards its rearward **latched** position,  
preferably by a spring 906c, illustrated in FIG. 56.

Typically, the **latch** 10c will be secured to a lid, and the keeper 600c  
will be secured to...

...is a plate having an opening 602c dimensioned and configured to receive  
the pawl's **hook** 458c. When the **latch** 10c is closed, the pawl's ramp  
460c strikes the keeper 600c, pushing the...

...end 456c clears the edge of the keeper 600c, the pawl 400c returns to  
its **latched** position under spring pressure, **latching** the **latch** 10c.

13

Unlatching of the **latch** 10c is controlled by the position of the  
pendulum 300. When the **latch** 10c is in its horizontal position, as  
illustrated in FIG. 34, the pendulum 300 is...

...on the pendulum 300 and the upper end 454c of the pawl 400c, unlatching  
the **latch** 10c.

When the **latch** 10c is in a vertical orientation, illustrated in FIG.  
35, the pendulum 300 pivots away from the button 200c, so that pressing  
the button 200c will not unlatch the **latch** 10c.

Rotating the **latch** 10c to its horizontal orientation will again rotate  
the pendulum 300 to abut the...

...ramp 854 dimensioned and configured to push the pendulum 300 out of  
engagement with the **button** or handle 200. Turning the key in the lock  
plug 802 rotates the pin 804...

...opposite direction slides the locking arm 850 away from the pendulum  
300, thereby removing the **locking** arm 850 from engagement with the  
pendulum 300 and permitting free rotation of the pendulum...

22/5,K/26 (Item 26 from file: 349)  
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00823266 \*\*Image available\*\*

**A CONTAINMENT ARTICLE HAVING A PAIR OF HINGEDLY CONNECTED, SUBSTANTIALLY  
IDENTICAL PLASTIC SHELLS AND RELATED IMPROVEMENTS**  
**ARTICLE CONTENANT PRESENTANT UNE PAIRE DE COQUES EN PLASTIQUE SENSIBLEMENT**

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Application: WO 2000SE949 20000512 (PCT/WO SE0000949)  
Priority Application: SE 993127 19990903

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(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AE AG AL AM AT AT (utility model) AU AZ BA BB BG BR BY CA CH CN CR CU CZ  
CZ (utility model) DE DE (utility model) DK DK (utility model) DM DZ EE  
EE (utility model) ES FI FI (utility model) GB GD GE GH GM HR HU ID IL IN  
IS JP KE KG KP KR KR (utility model) KZ LC LK LR LS LT LU LV MA MD MG MK  
MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SK (utility model) SL TJ TM TR  
TT TZ UA UG US UZ VN YU ZA ZW  
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE  
(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG  
(AP) GH GM KE LS MW SD SL SZ TZ UG ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class (v7): **E05B-041/00**

International Patent Class (v7): **E05B-047/00 ; E05B-041/00**

Publication Language: English

Filing Language: Swedish

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 8827

English Abstract

The invention relates to a method in which in and out passage to or from a certain room or area, preferably a building or an enclosure, is controlled via an automatic door system, in which automatic door system a locking system (1) is provided, which comprises at least three main components including at least an operating panel (2), a control unit (3) and a motor-lock (4). The method is characterized in that a random code (H1, H2, H3) is transmitted from one main component (2, 3, 4) to another after a user has entered an authorization code (B1) via a registration device (16), which code is converted in an activation circuit card (23) to a first random code (H1), which varies randomly between each such main component (2, 3, 4) and in addition each time an authorization code (B1, B2) etc. is entered, which random code (H1) is received and verified by the control unit (3), following which another random code (H2) is transmitted to the motor-lock (4), which transmits its current status back to the control unit (3), following which a third random code (H3) is transmitted to the motor-lock (4) for opening its latch bolt (14) by means of an electric motor (47).

French Abstract

L'invention concerne un procede permettant de commander le passage d'entree et de sortie d'une piece ou d'une zone, de preference, un batiment ou une enceinte, par l'intermediaire d'un systeme de porte automatique comportant un systeme de verrouillage (1) comprenant au moins trois elements principaux, a savoir un tableau de commande (2), une unite de commande (3) et un verrou motorise (4). Ce procede consiste a transmettre un code aleatoire (H1, H2, H3) depuis un element principal (2, 3, 4) jusqu'a un autre apres l'entree par un utilisateur d'un code d'autorisation (B1) par l'intermediaire d'un dispositif d'enregistrement (16), ce code etant converti dans une carte de circuit d'activation (23) en un premier code aleatoire (H1) variant de facon aleatoire entre chaque element principal (2, 3, 4) et, de plus, chaque fois qu'un code d'autorisation (B1, B2) est entre, ce code aleatoire (H1) etant recu et verifie par l'unite de commande (3), a transmettre ensuite un autre code aleatoire (H2) au verrou motorise (4), ce dernier renvoyant son etat actuel a l'unite de commande (3), a transmettre un troisieme code aleatoire (H3) au verrou motorise (4) afin d'ouvrir son pene (14) au moyen d'un electromoteur (47).

Legal Status (Type, Date, Text)

Publication 20010315 A1 With international search report.  
Examination 20010607 Request for preliminary examination prior to end of  
19th month from priority date

Main International Patent Class (v7): **E05B-041/00**  
International Patent Class (v7): **E05B-047/00** ...

... **E05B-041/00**

Fulltext Availability:  
Detailed Description

Detailed Description

... to the positions of the constituent mechanical parts.

All the delicate parts of the motor- **lock** 4 are arranged inside the protective case of the lock compartment 13, which consists of...

...to interact with this groove 51 in the linear inward and outward movements of the **spring** bolt 41. One or more **springs** 53, 54 are arranged inside the lock compartment 13, which **springs** 53, 54 lie close 0 to the **spring** bolt 41 and the carrier arm 50 under tension, the **springs** 53, 54 being provided to hold the **spring** bolt 41 normally in a position partly projected outside the lock

09 compartment 13, until the handle or **knob** 49 is used. The **spring** bolt 41 ensures that the door panel 9 and thereby the latch bolt 14 end...

...31 and magnet 30 are fitted in the lock compartment 13 and on the **spring** bolt 41 for detecting the position of the **spring** bolt 41, i.e. whether it is in its projected or retracted position, which...

...55 for interaction with the electric motor 47 for said retraction and extension of the **latch** bolt 14. The operating device 55 comprises an oblong, linearly movable carrier 56, which has...

...bearing on the cog rail 57 for said retraction and extension of the linearly movable **latch** bolt 14. The carrier 56 also comprises a cog segment 61 and two **hooks** 62, 63 arranged on opposing sides of the recess end 58 of the carrier 56, where the two **hooks** 62, 63, which are arranged at a set distance from one another, are turned towards...

...peg 64 raised from the follower 44, turning of the cylinder follower 44, via its **knob** or via a traditional locking cylinder by means of a main key, offering an opportunity...

...the cog rail 57. The cog rail 57 is sunk here in relation to the **sliding** surface 65 disposed on the same side.

An oblong blocking arm 66 is arranged rotatably...

22/5,K/28 (Item 28 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00763955 \*\*Image available\*\*

**LATCH MECHANISM**

**MECANISME DE VERROUILLAGE**

Patent Applicant/Assignee:

BE INTELLECTUAL PROPERTY INC, 1400 Corporate Center Way, Wellington, FL 33414, US, US (Residence), US (Nationality)

Inventor(s):

FORD Michael D, 23807 E. Blue Mills Road, Independence, MO 64058, US  
HANNAH Gary, 9411 West 47th Terrace, Merriam, KS 66203, US  
RAMUS Sebastien A, 640 Indiana Street, Lawrence, KS 66044, US

prior to 2004)

AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GH HU  
IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL  
PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN YU ZW GH GM KE LS  
MW SD SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH CY DE DK ES FI FR GB  
GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN ML MR NE SN TD TG

Main International Patent Class (v7): **E05C-003/04**

Publication Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 2663

#### English Abstract

A latching mechanism (26) for an adjustable squeeze-off clamp (10) comprising a static jaw (16), a movable jaw (18) with an associated adjustment member (20) and an over-the-center operating linkage including an operating handle (23) and a link (24). The latching mechanism is selectively automatic whereby, when the lock mode is selected and the clamp is then closed, it automatically locks. The latch mechanism includes a spring (32) and a latch bar (28) with pivotal mounting (30) and notched end (36). In at least one embodiment, the latching mechanism includes an eccentric knob (42) for selection of the automatic locking mode.

#### French Abstract

L'invention concerne un mecanisme de verrouillage (26) pour une pince-etau ajustable (10) comportant une machoire statique (16), une machoire mobile (18) munie d'un element de reglage (20) associe, et un element d'articulation a detente brusque comprenant une poignee (23) et un element de liaison (24). Le mecanisme de verrouillage est automatique de facon selective en ce que lorsque le mode de verrouillage est selectionne et qu'ensuite la pince est refermee, la pince est automatiquement verrouillee. Le mecanisme de verrouillage comporte un ressort (32) et une tige de verrou (28) munie d'une fixation pivotante (30) et d'une extremite a encoche (36). Dans un mode de realisation au moins, le mecanisme de verrouillage comporte un bouton (42) excentre permettant de selectionner le mode de verrouillage automatique.

Main International Patent Class (v7): **E05C-003/04**

Fulltext Availability:

Detailed Description

#### Detailed Description

... with their conventional meanings.

Referring then to the Figures, particularly Figures 1 and 2, the **clamp** 10 of the present invention has a jaw or work piece gripping end 12 and a

...clamp 10 is provided with an automatic latch mechanism 26.

Referring to Figure 1, the **latch** mechanism 26 is carried by the clamp top handle 23, part of the operating linkage 22. The **latch** mechanism includes a **latch** bar 28, which is pivotally pinned to the handle 23 by a pin 30. The...

...material. Approximately mid-way along its length, adjacent to the pin 30, it carries a **latch** bar spring 32 held in place by a **latch** spring pin 34. Alternatively, the spring could be carried in a similar fashion by the link 24. Adjacent one end 31, the **latch** bar 28 includes a relieved notch 36 forming a **latch** **hook** for releasably engaging an outstanding **latch** post 38 carried by the top jaw 16.

The **latch** mechanism 26 also includes a function and indicator operating

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FI NO AT BE CH DE DK ES FR GB GR IE IT.LU.MC NL PT SE  
Main International Patent Class (v7): **E05B-047/06**  
Fulltext Availability:  
Detailed Description  
Claims  
Fulltext Word Count: 3834

#### English Abstract

The lock housing (1) of a door lock houses two mutually independent mechanisms for retracting a latch bolt (24) from its locking position. The one mechanism enables the latch bolt to be retracted by turning a key in a cylinder lock provided with a cylinder follower (4), in a conventional manner. The second mechanism enables the latch bolt to be retracted with the aid of a knob follower (15) in coaction with a coupling hook (10), providing that a stop member (22e) which is actuated by the core (21a) of a solenoid (21) and which moves in the movement plane of the coupling hook is not in engagement with a corresponding stop member (10e) on the coupling hook (10). In this regard, rotational or pivotal movement of the knob follower causes a coupling means (15b) associated with said knob follower to engage a second recess (10b) in the coupling hook (10), therewith coupling the knob follower and the coupling hook together, wherein further rotation of the knob follower causes the latch bolt to be retracted by virtue of the coupling hook actuating the enlargement (24b) on the latch bolt rod. When the stop members (10e, 22e) are mutually engaged, the knob follower coupling means (15b) will pass by the coupling hook without engaging the same. The core-carried stop member (22e) is rectilinearly movable and the core does not function to move or swing the members of the lock mechanisms.

#### French Abstract

La gaine (1) d'une serrure de porte loge deux mecanismes independants l'un de l'autre qui servent a rentrer un pene demi-tour (24) a partir de sa position de fermeture. L'un des mecanismes permet de rentrer le pene demi-tour par rotation d'une cle dans une serrure a barillet pourvue d'une gachette de barillet (4), selon un montage classique. Le deuxieme mecanisme permet de rentrer le pene demi-tour a l'aide d'une gachette de bouton (15) cooperant avec un crochet d'accouplement (10), a condition qu'un element de butee (22e) actionne par le noyau (21a) d'un electro-aimant (21) et se deplacant dans le plan de déplacement du crochet d'accouplement, n'est pas en prise avec un element de butee correspondant (10e) sur le crochet d'accouplement (10). De ce fait, la rotation ou le pivotement de la gachette de bouton provoque l'engagement d'un moyen d'accouplement (15b) associe a ladite gachette de bouton dans un deuxieme evidement (10b) du crochet d'accouplement (10), ce qui accouple la gachette de bouton et le crochet d'accouplement, une autre rotation de la gachette de bouton escamotant le pene demi-tour sous l'effet exerce par le crochet d'accouplement sur l'agrandissement (24b) de la tige du pene demi-tour. Quand les elements de butee (10e, 22e) sont en prise reciproque, le moyen d'accouplement (15b) de la gachette de bouton passera a cote du crochet d'accouplement sans venir en prise avec ce dernier. L'element de butee (22e) porte par le noyau est mobile dans un sens rectiligne et le noyau n'agit pas de facon a deplacer ou faire basculer les elements des mecanismes de verrouillage.

Main International Patent Class (v7): **E05B-047/06**  
Fulltext Availability:  
Detailed Description  
Claims

Detailed Description



... means is in engagement with one of said recesses, the coupling member will be both **pivotal** and displaceable on said pivot axle

This ...a plate or washer 9 in the vicinity of the latch bolt enlargement 24b

The **latch** bolt 24 is manoeuvred typically by means of a ...shown) in a typical manner

The follower arm 15a actuates the enlargement 24b of the **latch** bolt 24 via a coupling member which in the illustrated case has the form of...to both pivot on and move linearly in relation to the pin 10c. The coupling **hook** 10 is also provided with a stop member 10e, the function of which will be described in more detail below. The coupling **hook** 10 is biased by a spring 23 which strives to swing the **hook** 10 around the pivot pin 10c in a clockwise direction. The follower 15 is swung...carries a stop member 22e intended for coaction with the stop member 10e on the **hook** member 10 (c.f. below). The solenoid core 21a is biased in an outward direction members 10e and 22e on the respective **hook** member 10 and slide 22 are in mutual engagement

Voltage is applied to the solenoid...

...housing, wherein the electrical arrangement within the lock housing includes a protective diode 18

The **latch** bolt mechanism also includes a safety catch 26 provided with a lock-picking guard 27, and a safety-catch **hook** 11 actuated by a spring 28. The arrangement prevents the **latch** bolt 24 from being retracted from its locking position to its lock release position, e...of the lock to be indicated electrically. Coupling of the follower 15 to the coupling **hook** 10 to effect movement of the **latch** bolt 24 to its lock release position by means of the handle or knob will now be described with reference to Figs. 1-3. Coupling of the follower to the **hook** 10 requires the stop member 10e on said **hook** to be out of engagement with the stop member 22e on the slide 22 connecte the follower arm 15a will engage the recess 10a in the coupling **hook** 10, which therewith holds the follower arm 15a in the position shown in Fig. 1...bolt enlargement 24b, therewith retracting the latch bolt 24

When the knob or handle is **released**, all component members are returned to the position shown in Fig. 1 under the influence...

#### Claim CLAIMS

1. A door **lock** comprising a lock housing (1) which accommodates a latch bolt (24) that includes a...

...movable from a locking position to a lock release position against the action of a **spring** (25), wherein the latch bolt (24) is actuable by mechanisms located on different sides of...and in another position causes the latch bolt to remain unaffected by movement of the **knob** follower, wherein the

coupling member (10) also coacts with a solenoid core ( ...coupling member in a position in which it is unaffected by rotational movement of the **knob** follower (15); and in ...with the stop member (10e) carried by the coupling member, wherein rotational movement of the **knob** follower (15) causes the **knob** follower to be coupled to the coupling member (10), and wherein continued rotation of the **knob** follower results in retraction of the

12 **latch** bolt (24), by virtue of the direct or indirect action of the coupling member on the bolt-rod enlargement (24b) of the **latch** bolt.

2. A door lock according to Claim 1, characterized in that the core- ...to any one of the preceding Claims, characterized in that the coupling member has a hook-like configuration (10) which includes two mutually adjacent recesses (10a, 10b) for alternative engagement with a coupling means, e.g. a pin (15b), which is connected to the **knob** follower (15) and which extends parallel with the pivot axis (15c) of said **knob** follower.

5. A door lock according to Claim 4, characterized in that the pivot axle...

...pivotal on and linearly displaceable in relation to said pivot axle (10c).

6. A door **lock** according to ...when the stop members (10e, 22e) are out of mutual engagement, rotation of the **knob** follower (15) results in rotation of the coupling member (10), engagement of the coupling means...

...of the 13 coupling member relative to its pivot axle (10c), and retraction of the **latch** bolt (24) by engagement with its bolt-rod enlargement (24b) or with a member (9) mounted adjacent thereto.

7. A door **lock** according to Claim 6, characterized in that ...is actuated by a spring (23) which functions to swing said member clockwise around the **pivot** axle (10c).

22/5,K/33 (Item 33 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00251489 \*\*Image available\*\*

**LATCH AND LOCKSET SYSTEM**  
**SYSTEME DE LOQUET ET D'ENSEMBLE SERRURE**

Patent Applicant/Assignee:

HOPPE AG,  
HOPPE Friedrich,  
ENGEL Heinz-Eckhard,

Inventor(s):

HOPPE Friedrich,  
ENGEL Heinz-Eckhard,

Patent and Priority Information (Country, Number, Date):

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Application: WO 93EP1387 19930602 (PCT/WO EP9301387)  
Priority Application: AT 892109679 19920609; DE 93005466 19930116  
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AU BR CA CZ FI HU JP KR NO PL RU SK UA US AT BE CH DE DK ES FR GB GR IE  
IT LU MC NL PT SE  
Main International Patent Class (v7): **E05C-001/16**  
Publication Language: German  
Fulltext Availability:  
Detailed Description  
Claims  
Fulltext Word Count: 4551

#### English Abstract

A latch and lockset system comprises a common unit having a socket (30) that houses a rotor (40) pivotably supporting a catch (50) on a pin (53) and attached to latch means (handles 20, 22). As the lockset (10) is assembled, its components (50, 53, 40, 34, 23) secure themselves successively. The unit is mounted in a transversal bore (Q) of a door leaf (T) by introducing a handle (20) sideways so as to point outwardly towards the free door edge whereby the common unit becomes seated in the transversal bore (Q); then the handle main portion (24) is pivoted by 180degrees to reach its idle position in which the handle (20) is biased by a returning spring block (34) on the rotor (40). A guide bush (18) radially screwed into the socket (30) for securing it in a longitudinal bore (L) receives a spring-biased bolt (15). The catch (50) is an elbow lever reaching over a slanted ridge (45) between cheeks (48) of the rotor (40); a fork (52) is lockable to the inner bolt end (17), whereas a follower arm (54) engages a receiving hollow (46) of ridge (45).

#### French Abstract

Un systeme de loquet et d'ensemble serrure comprend un organe commun pourvu d'une boite de serrure (30) qui loge un rotor (40) soutenant pivotant un cliquet (50) sur une cheville (53) et fixe a des elements de loquet (poignees 20, 22). Tandis que la serrure (10) est assemblee, ses elements (50, 53, 40, 34, 23) s'assujettissent successivement. L'on monte l'organe dans un trou transversal (Q) d'un battant de porte (T) en introduisant une poignee (20) lateralement de facon a l'orienter vers l'exterieur, vers le bord libre de la porte, de sorte que l'organe commun se loge dans le trou transversal (Q); puis la partie principale de la poignee (24) est pivotee de 180degrees pour adopter sa position de repos, la poignee etant sollicitee par un bloc ressort de rappel (34) situe sur le rebord (40). Une douille de guidage (18), vissee radialement dans la boite (30) afin d'etre fixee dans un trou longitudinal (L), recoit un verrou (15) sollicite par ressort. Le cliquet (50) est un levier coude passant au-dessus d'une arete oblique (45) entre des faces (48) du rotor (40); une fourche (52) peut etre verrouillee a l'extremite interne (17) du verrou, tandis qu'une gachette (54) entre en contact avec un creux (46) de reception de l'arete (45).

Main International Patent Class (v7): **E05C-001/16**

Fulltext Availability:

Claims

#### Claim

... which

handle 20 is biased by a returning spring block 34 on rotor 40. A **guide** bush 18 is radially screwed into socket 30 for securing it in a longitudinal bore L and receives a spring-biased bolt 15. Snap-locking cover rings 65

**fasten** the common unit additionally, The catch 50 is an elbow lever having a fork 52 40,

Operating means 106; 187 serve to **lock** or unlock the bolt 15 via cams 88, 90; 190 and/or an inhibit shoe...

...rotation stops  
shoulder 50 catch/elbow lever  
outer edge 51 box  
bolt 52 fork  
compression **spring** 54 arm/follower  
inner end 55 well %  
guide sleeve 56 screw bolts  
projections 57 holes...

...74 cover plate  
main portion 80 through hole  
shaft 87 pusher  
socket 88 slide plate  
    **spring** barrel 89 recess  
    **spring** block 90 cam  
opening 103 indicator pin  
limits 106 **locking** **button**

38 381 tapped hole 109 pins  
bore 110 spiral pin  
rotor 111 transverse port  
SUBSTITUTE SHEET

115 **hook**  
116 **shaft** portion  
123 bayonet thread  
126 notch  
133 guide wings  
138 grooves/recesses  
147 end faces  
148 sealing lip  
149 counterstops  
159 inhibit shoe  
160 foot portion  
187 operating **bar**  
188 guide cheeks  
189 aperture  
190 ramp stop  
191 handle face ends  
192 socket face ends  
193 socket arcs  
194 bevels  
195 half-round **shaft**  
196 **spring**  
SUBSTITUTE SHEET  
C 1 a i m s

1 **Latch** and lockset system including...**latch** means such as  
    **knob** , handle (20) or handle pair (22) for operating  
    lockset (10) arranged in two bores (L...

...15) that extends through a guide sleeve (18) in  
a longitudinal bore (L) and is **movable** along a  
shifting axis (V), the rotor (40) being housed in a  
socket (30) seated...

22/5,K/34        (Item 34 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00211179        \*\*Image available\*\*  
**LATCHING AND LOCKING SYSTEM FOR LUGGAGE**  
**SYSTEME DE VERROUILLAGE ET DE BLOCAGE POUR BAGAGE**  
Patent Applicant/Assignee:

mechanique et d'une serrure electronique; la serrure a combinaison mecanique servant a effectuer une entree sure en cas de defaillance de la serrure electronique. D'une maniere plus specifique, le mecanisme de serrure comprend une serrure a combinaison mecanique ayant une liaison (145) de retrait du pene, laquelle liaison est declenchee par un mouvement interieur d'un cadran dans une premiere relation operative avec un organe de commande sur l'axe d'entrainement. Un verrou electronique empeche le retrait du pene par cette liaison de retrait de pene lorsqu'il se trouve dans la premiere position operative jusqu'a ce que le verrou electronique ait ete actionne. Cependant, lorsque les roues de la serrure ont ete alignees et qu'une barre de porte penetre dans les roues, la liaison de retrait du pene prend une seconde position operative avec l'organe de commande de maniere a permettre le retrait du pene en depit de l'effet de verrouillage de la serrure electronique.

Main International Patent Class (v7): **E05B-047/06**

Fulltext Availability:

Detailed Description

#### Detailed Description

- ... recesses is to be engaged by a dual purpose roller 161 when said roller is **moved** in a counterclockwise direction (as illustrated in Fig. 4) by a driving cam or driver...
- ...have provided a solenoid latch to enable or disable movement of bolt 40. The solenoid **latch** 5 includes a solenoid 171 pivotally connected at 173 to a **latch** 175, as shown in Figs. 4, 8 and 9. **Latch** 175 is pivotally mounted at 177 to the case. The plunger of solenoid 171 is **spring** loaded so that it extends out from the solenoid when the solenoid is 10 deenergized...
- ...deenergized and its plunger is extended, thereby causing an operative, or stop end 179 of **latch** 175 to be in a **latching** position with respect to a **hook** 41h provided on fence 15 lever 141. In this **latching** position, **hook** 41h cannot move laterally past stop end 179 of **latch** 175 even if roller 161 is engaged with recess 145b. Consequently, bolt 40 is prevented...
- ...inserted into the 25 socket or nest 24g on dial ring 24 and the "ON" **button** 30a pressed so as to send a signal to the lock. If the proper password...for a predetermined period and retracts the solenoid plunger. This causes stop member 179 of **latch** 175 to pivot and raise slightly to its Fig. 9 position so that **hook** 41h just clears stop end 179 of the **latch**. In such 35 configuration, counterclockwise rotation of shaft 27 drives lever actuator member 145 to...
- ...place, as for example, on the inside of the safe door.

#### FAIL SAFE OPERATION

The **lock** of the present invention is adapted to be opened by entry of a mechanical combination...into alignment with the fence bar 44 (Fig. 8). It is then only necessary to **move** the dial to its zero position and push it inwardly to dislodge the lever actuator...

22/5,K/36 (Item 36 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00140201 \*\*Image available\*\*

**ELECTRONIC REAL ESTATE LOCKBOX SYSTEM**

**SYSTEME ELECTRONIQUE DE COFFRE DE SECURITE POUR L'IMMOBILIER**

Patent Applicant/Assignee:

SUPRA PRODUCTS INC,

Inventor(s):

HENDERSON Walter G,

ARCHER John Q II,

DAUM Gerald R,

ELLSON George A,

GRAY John E,

LARSON Wayne F,

OLDS Rockne M,

SCANSEN Jerry P,

SHERMAN John W,

UNREIN Edgar J,

Patent and Priority Information (Country, Number, Date):

Patent: WO 8705069 A1 19870827

Application: WO 87US374 19870219 (PCT/WO US8700374)

Priority Application: US 86601 19860221

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AT BE CH DE FR GB IT JP LU NL SE

Main International Patent Class (v7): **E05B-049/00**

Publication Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 26931

**English Abstract**

A comprehensive real estate lockbox system (10) which provides a variety of operational features. Some of these features include the ability to: record all accesses to all lockboxes (12); transfer all or part of such records from the lockboxes (12) to a supervising real estate agency or board; organize and review such records; facilitate operation of lockboxes (12) that are mounted in awkward or poorly lit locations; limit lockbox accesses to preselected agents, agencies or boards; reprogram lockboxes in the field; monitor redundantly the status of the lockbox battery (32); record diagnostic information on each operation of a lockbox (12) or key (14); render keys inoperative on predetermined dates; disable unauthorized keys; grant agents from remote real estate boards permission to open certain lockboxes, and; grant different keys different privileges.

**French Abstract**

Un systeme complet de coffre de securite pour l'immobilier (10) offre une variete de caracteristiques de fonctionnement et notamment la faculte d'enregistrer tous les acces au coffre de securite (12); de transferer toute partie de ces enregistrements depuis les coffres de securite (12) jusqu'a une agence ou un bureau immobiliers charges de la surveillance; d'organiser et d'examiner ces enregistrement; de faciliter le fonctionnement des coffres de securite (12) qui sont montes dans des endroits peu accessibles ou mal eclaires; de limiter les acces au coffre de securite a des agents, agences ou bureau preselectionnes; de reprogrammer les coffres de securite sur le terrain; d'effectuer un controle par redondance de l'etat de la pile (32) du coffre de securite; d'enregistrer des informations diagnostiques concernant chaque mouvement

d'un coffre de securite (12) ou d'une cle (14); de mettre les cle hors service a des dates predeterminees; d'invalider des cle non autorisees; d'accorder a des agents venant de bureaux immobiliers eloignes l'autorisation d'ouvrir certains coffres de securite, et d'accorder a differentes cle differentes privileges.

Main International Patent Class (v7): **E05B-049/00**

Fulltext Availability:

Detailed Description

Detailed Description

... portion 106,

a butt portion 108 and a turned cut portion 110. Stem 104 is **spring** biased away from the back of case 100 by a 5 spring 112 compressed between...thereby causing the opposite end of the lever to exert a force against an actuator **button** 126 on microswitch 42. When microswitch 42 closes, key compartment locking solenoids 36 energize, provided...

...releases the door, it is allowed to spring open, pushed by the force of stem **spring** 112 and a compressed door gasket 192.

Forward travel of door stem 104 when in...

...case

100. However, by the time door stem 104 has moved forwardly this distance, door **latch** 102 has unhooked from stem 104 under the influence of door **latch spring** 5 128, which lifts **latch** 102 about a pivot point 130.

Door 24 is thus free to open about door...

...104 if

the stem is then in its unlocked position.

When door 24 is closed, **latch** 102 engages with a **hook** portion of stem 104 as these components are pushed inwardly. The **hook** portion of **latch** 102 has a curved upper surface so that it lowers into its **latched** position automatically when it meets the case. The front entrance to the bore within which these coupled elements travel has a chamfered upper portion 135 to further facilitate lowering **hook** portion of **latch** 102 into its locked position. With the **latch** and stem so engaged, stem 104 is pushed further inwardly until the **spring** loaded plungers 116, 118 of the key compartment locking solenoids are able to engage into...variety of security enhancing features not found in prior art lockboxes. For example, the shackle **release** mechanism of the present invention is concealed behind the key compartment door, thereby protecting it...

22/5,K/37 (Item 37 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00125717 \*\*Image available\*\*

**CHECKING DEVICES FOR FASTENERS**

**DISPOSITIF DE CONTROLE POUR FERMETURES**

Patent Applicant/Assignee:

SMITH Donald Bebbington,

Inventor(s):

SMITH Donald Bebbington,

Patent and Priority Information (Country, Number, Date):

Patent: WO 8503971 A1 19850912  
Application: WO 85GB83 19850228 (PCT/WO GB8500083)  
Priority Application: GB 845341 19840229

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AT BE CH DE FR GB JP LU NL SE US

Main International Patent Class (v7): **E05B-017/22**

Publication Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 5123

English Abstract

A fastener checking device includes a fastener (9), an engaging member (10) with which the fastener engages, coding means (11) and detecting means (12). The coding means and detecting means are arranged each on one of the fastener and the engaging member, the detecting means being so arranged as to detect a particular relative position between it and the coding means, and thereupon to enable a signal to be generated.

French Abstract

Un dispositif de controle de fermeture comprend une fermeture (9), un organe d'engagement (10) dans lequel s'engage le dispositif de fermeture, un organe de codage (11) et un organe detecteur (12). L'organe de codage et l'organe detecteur sont disposes l'un sur le dispositif de fermeture et l'autre sur l'organe d'engagement, l'organe detecteur etant agence de maniere a detecter une position relative particuliere entre lui-meme et l'organe de codage, et a permettre par consequent la production d'un signal.

Main International Patent Class (v7): **E05B-017/22**

Fulltext Availability:

Detailed Description

Detailed Description

... figure 6 where the bolt has transmission means as in figure 3. and is **releasable** as in figure .4 by a handle on one side of the door only.

Figure...

...channels in a sensing system, for a fastener device.

Figure 21 shows a door latching **hook** is provided with a target in the **hook**, which mates with a sensor mounted on a **latch** keeper.

Figure 22 show's a similar mechanism with a door release **button**.

The embodiments variously include ...to cooperate with it or them.

- A fastener (usually releasable) such as a bolt, catch, **latch**, screwed bolt, etc 5 engaging in a counterpart engaging member 10 such as a housing...

...a sensor 12 on the engaging member; manual operating means such as a handle or **knob** 13 and/or powered operating means such as a solenoid or pneumatic or hydraulic cylinder 14 and a return **spring** 15.



A fastener keeper 18 with a target 19 and sensor 20., the  
20 keeper...

...powered by  
means 22 such as those used to operate the ' fastener, with a  
return **spring** 31.

A power reservoir such as a battery, capacitor, hydraulic  
or penumatic: accumulator, **spring** , flywheel or weight system  
for operating or releasing any powered fastener', fastener  
keeper, door or...

...to the door sensor 4; connections 17 to  
the door target; connections 24 to the **fastener** sensor 12;  
connections 25 to the **fastener** target 11; connections 26 to  
thefastener keeper.-sensor 20; connections 27 to the **fastener**  
keeper target 19; connections 28 to the key sensor 8;  
connections 29 to a powpred-fastgTier operator 14; connections  
30 to a powered **fastener** keeper operator 22.

Internal connections 32 within the **fastener** device, or 33  
within the **fastener** keeper.

Intermediate linkages etc 34 for releasing or operating  
a fastener, or for retaining it...

...of which engages with a bolt hole 10  
on the door when the solenoid is **released** with the door  
closed, so that the sensing elements 12 which are connected  
to the...

**22/5,K/38** (Item 38 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00124392

**STOWAGE BIN LATCH ASSEMBLY**

**ASSEMBLAGE DE VERROUILLAGE POUR CONTENEUR DE RANGEMENT**

Patent Applicant/Assignee:

THE BOEING COMPANY,  
STOECKER Carl Herbert,

Inventor(s):

STOECKER Carl Herbert,

Patent and Priority Information (Country, Number, Date):

Patent: WO 8502645 A1 19850620

Application: WO 83US1998 19831216 (PCT/WO US8301998)

Priority Application: WO 83US1998 19831216

Designated States:

(Protection type is "patent" unless otherwise stated - for applications  
prior to 2004)

DE FR GB JP NL SE US

Main International Patent Class (v7): **E05C-003/30**

Publication Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 5266

**English Abstract**

A latching assembly for a door of an overhead stowage bin for a  
passenger aircraft. There is a pivotally mounted latching arm (40) which  
is moved by an actuating member (42) having upper and lower contact

members (74, 76), with the lower contacting member (76) being spaced downwardly from the latching arm when in its latching position. The actuating member is urged downwardly by spring means (44) to the latching position. The latch remains secured in its latching position even though impact loads may be imposed on the door.

#### French Abstract

Assemblage de verrouillage pour la porte d'un conteneur de rangement suspendu d'un aeronef transportant des passagers. Un bras de verrouillage monte de maniere pivotante (40) est deplace par un organe d'actionnement (42) possedant des organes de contact superieur et inferieur (74, 76), l'organe de contact inferieur (76) etant ecarte vers le bas du bras de verrouillage lorsqu'il se trouve dans la position de verrouillage. L'organe d'actionnement est sollicite vers le bas par un organe a ressort (44) jusqu'a la position de verrouillage. Le verrou reste fixe dans sa position de verrouillage meme en cas de charges d'impact appliquees sur la porte.

Main International Patent Class (v7): **E05C-003/30**

Fulltext Availability:

Detailed Description

#### Detailed Description

... by doors which are hinge  
mounted at their upper edge portions so that the doors  
**swing** upwardly and outwardly to an open position. It is  
also common for these doors to...

...move out of latching engagement.

U.S. Pat. No. 1r766r193r Schmitze et al. shows a  
**latching** assembly for the door of a locker. There is an  
exterior handle which is attached to a vertically  
oriented channel member on which are pivotally mounted a  
number of **latching hooks**. Raising the handle lifts the  
channel so that the **hooks** are lifted out of locking  
engagement.

U.S. Pat. No. 2j074j449r Ziomek, et al shows...

...mechanism by which the forward and rear doors of  
an automobile or other structure are **latched**. There are  
a pair of pivota.L.Ly mounted locking members which can  
move into...of  
locking engagement

U.S. Pat. No. 3,596,952p Hinkle, et al, shows a  
**latching** assembly where there is a slide button which  
actuates a pair of bell cranks which...

...the slide button to rotary motion  
This motion is transmitted through connecting rods to  
the **latch** to rotate the **latch** member into and out of  
locking engagement.

Also, as part of the prior art it is noted that  
**latching** devices which are currently used for aircraft  
comprise an operating handle or member which is slide  
mounted for vertical motion, with a spring urging the  
operating member toward a downward **latching** position.  
There is a **hook** or **latching** member fixedly attached to  
the operating member and lifting the operating member  
simply lifts the **hook** linearly out of locking  
engagement.

It is an object of the present invention to

provide a **latching** assembly particularly adapted for use in an overhead stowage bin of an aircraft but also adaptable for use in other applications? which reliably performs its **latching** and unlatching function of a relatively simple structure and is easily operated.

1 EE XA...spring means operatively connected to the latching arm to urge the latching arm toward its **release** position, More particularly in the preferred form, the spring means comprises a coil spring mounted...

**22/5,K/39** (Item 39 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00123291

**NON-ELECTRONIC CARD-KEY ACTUATED COMBINATION LOCK**  
**SERRURE A COMBINAISON ACTIONNEE PAR UNE CARTE-CLEF NON ELECTRONIQUE**

Patent Applicant/Assignee:

KUHNS Roger J,

Inventor(s):

KUHNS Roger J,

Patent and Priority Information (Country, Number, Date):

Patent: WO 8501541 A1 19850411

Application: WO 84US1578 19841003 (PCT/WO US8401578)

Priority Application: US 83980 19831004

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AT AU BE BR CH DE FI FR GB JP KR LU NL SE SU

Main International Patent Class (v7): **E05B-047/00**

International Patent Class (v7): **E05B-37:00 ; E05B-35:04 ; E05B-63:22**

Publication Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 5862

**English Abstract**

A first set of pivoted latching fingers (6) having hook ends (13) facing a first direction, together with a second set of pivoted latching fingers (6) interlaced with the first set in accordance with a particular combination which unlocks the device. The fingers of the second set of latching fingers have hook ends (16) facing in a direction opposite to the direction of orientation of the hook ends of the first set and actuation of only the proper combination of the fingers causes the hooks of all fingers to be displaced away from a pair of facing lock anchor members to unlock the lock. All of the fingers are pivoted so that slight amounts of magnetically permeable material (31) in the card key (30) are sufficient to move the hooks of the pivoted latching fingers bearing permanent magnets, through a substantial distance, to enable the use of a thin, flexible card key for positive lock actuation. Additionally, slidable elongate hook protrusions (46, 48) may be selectively positioned to extend from the fingers in the first or second directions, to enable changing the lock combination in a matter of seconds by inserting a new key card into the lock after all of such protrusions assume a first position with respect to all fingers.

**French Abstract**

Un premier ensemble de doigts de verrouillage pivotes (6) ayant des extremités a crochets (13) regardant dans une premiere direction est imbrique avec un second ensemble de doigts de verrouillage pivotes selon une combinaison particuliere qui deverrouille le dispositif. Les doigts de verrouillage du second ensemble possedent des extremités a crochets

(16) regardant dans une direction opposee a la direction d'orientation des extremités a crochets des doigts de verrouillage du premier ensemble, et seule la bonne combinaison des doigts provoque le déplacement des crochets de tous les doigts et leur éloignement par rapport a une paire d'organes d'ancrage de verrouillage opposes pour deverrouiller la serrure. Tous les doigts sont pivotés de sorte que de faibles quantites d'un materiau magnetiquement permeable (31) de la carte-clef (30) sont suffisantes pour deplacer les crochets des doigts de verrouillage pivotés portant des aimants permanents, sur une certaine distance, permettant l'utilisation d'une carte-clef mince et flexible pour assurer un actionnement positif de la serrure. De plus, des protuberances de crochets allongees coulissantes (46, 48) peuvent etre selectivement positionnees pour s'etendre depuis les doigts dans la premiere ou dans la seconde direction et permettent le changement de la combinaison de la serrure en quelques secondes par introduction d'une nouvelle carte-clef dans la serrure apres s'etre assure que toutes ces protuberances se trouvent dans une premiere position par rapport a tous les doigts.

Main International Patent Class (v7): **E05B-047/00**

International Patent Class (v7): **E05B-37:00** ...

... **E05B-35:04** ...

... **E05B-63:22**

Fulltext Availability:

Detailed Description

Detailed Description

... of the first set of fingers to be attracted to the spots, to in turn **pivot** the entire first set of fingers to enable the release of the lock. Since the...the lock is opened from the inside by actuating button 18# to cause the pivotable **latching** fingers to move toward each other to in turn maintain the **hook** members in the disengaged position with respect to the anchor members.

In the embodiments illustrated...

...inventor

has designed a resetable combination lock whereby the directions of orientation of the **hook** members may be selectively reversed in accordance with a new combination in a matter of...

...shown. These disks have strait elongated slots 43 and 44 formed therein for receiving the **hook** members which comprise elongated slidable rods rather than those **hook** members shaped as disclosed in the preceding figures, In Figure 4, the **latching** finger comprises a rod member 46 which is slidably positioned within the terminal portion of the pivoted **latching** finger, The lock will be opened by causing counter clockwise rotation of the proper first set of **latching** fingers which have their elongated **hook** members 46 positioned within the slot formed in the left hand disk 42 as illustrated. All of the proper **latching** fingers must be actuated to cause **hook** members 46 to clear the slot. As before, the actuation of one or more improper **latching** fingers of the second setr interlaced with the first set, will cause the normally disengaged...

...the door

knob coupled to rotary disk 41.

Figure 5 illustrates the position of the **latching** fingers when the key card is inserted into the slot which has the proper combinatin to unlock the lock. The elongated **hook** members would preferably have a groove 51 formed therein which is positioned against a detent...

...60 shown in Figure 5. This action causes the clockwise rotation of all of the **latching** fingers and# due to the positioning of the left hand rotary disc affixed to the...hooks could be for example rotated 180 degrees angularly, rather than providing pins which are **displaced** by translation. The use of a straight slot formed in the rotary disc affixed to...

26/5,K/1 (Item 1 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
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01131667

**Clip driver**

**Gerat zum Setzen von Klammern**

**Pose-agrafe**

PATENT ASSIGNEE:

Sato, Yoneko, (4513860), 2650-38 Takahagi, Hidaka-shi, Saitama-ken, (JP),  
(Proprietor designated states: all)

INVENTOR:

Sato, Hisao, deceased, , (JP)

LEGAL REPRESENTATIVE:

Banzer, Hans-Jorg, Dipl.-Ing. et al (83612), Kraus & Weisert Patent- und  
Rechtsanwalte Thomas-Wimmer-Ring 15, 80539 Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 988938 A2 000329 (Basic)

EP 988938 A3 001108

EP 988938 B1 031105

APPLICATION (CC, No, Date): EP 99100311 990111;

PRIORITY (CC, No, Date): JP 98306276 980922

DESIGNATED STATES: DE; FR; GB; NL

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS (V7): B25B-031/00; A61B-017/128; **B42F-001/00**

CITED PATENTS (EP B): US 4996755 A; US 5136768 A

CITED REFERENCES (EP B):

PATENT ABSTRACTS OF JAPAN vol. 018, no. 220 (M-1595), 20 April 1994

(1994-04-20) & JP 06 015994 A (YOSHIO MIHASHI), 25 January 1994

(1994-01-25)

PATENT ABSTRACTS OF JAPAN vol. 018, no. 025 (M-1542), 14 January 1994

(1994-01-14) & JP 05 262087 A (HISAO SATO), 12 October 1993

(1993-10-12);

**ABSTRACT EP 988938 A2**

A clip driver(10) for driving elastic clips(1) each having have a back portion(2), and abutment portions(3) for clipping edge portions of sheet-members(6) between the opposite ends of the abutment portions(3), comprises: a casing body(11,12) for accommodating said clips(1) and including a sheet-member insertion inlet(18) formed at a front end, a clip insertion inlet(47) formed at a rear end, a longitudinally extending opening(34) formed in a front end upper surface, a clip path(22,26) formed so as to extend from said sheet-member insertion inlet(18) to said clip insertion inlet(47), and clip stopper portions(27) for engagement with said clips(1) so as to allow said clips(1) to advance but prevent said clips(1) from retreating; clip opening springs(17) disposed in the vicinity of said sheet-member insertion inlet(18) for opening a nip between said abutment portions(3) of the frontmost clip(1); an operation knob(13) longitudinally movably fitted into said opening(34) for feeding the frontmost clip(1) in said clip path(22,26) toward said sheet-member insertion inlet(18) over said clip opening springs(17) by means of the front end of said operation knob(13); a feed member(14) movable together with said operation knob(13) and having feed protrusions(65) which make a second and following ones of said clips(1) advance simultaneously when said feed member(14) advances, while said feed member(14) can retreat without making said advanced clips(1) retreat by said feed protrusions(65); and an elastic member(16) always elastically biasing said operation knob(13) and said feed member(14) toward the rear end of said casing body(11,12).

ABSTRACT WORD COUNT: 241

NOTE:

Figure number on first page: 1

LEGAL STATUS (Type, Pub Date, Kind, Text):

Change: 001108 A2 International Patent Classification changed:  
20000915

Application: 20000329 A2 Published application without search report  
Oppn None: 041027 B1 No opposition filed: 20040806  
Change: 031029 A2 Legal representative(s) changed 20030912  
Search Report: 001108 A3 Separate publication of the search report  
Examination: 010425 A2 Date of request for examination: 20010228  
Assignee: 031001 A2 Transfer of rights to new applicant: Sato,  
Yoneko (4513860) 2650-38 Takahagi, Hidaka-shi  
Saitama-ken JP

Change: 031001 A2 Inventor information changed: 20030815

Grant: 031105 B1 Granted patent

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200013	1260
CLAIMS B	(English)	200345	1286
CLAIMS B	(German)	200345	1441
CLAIMS B	(French)	200345	1742
SPEC A	(English)	200013	11072
SPEC B	(English)	200345	11073
Total word count - document A			12334
Total word count - document B			15542
Total word count - documents A + B			27876

...INTERNATIONAL PATENT CLASS (V7): **B42F-001/00**

...SPECIFICATION the sheets of paper are inserted into the paper insertion inlet, and a clip is **moved** toward the paper insertion inlet by the lever. If the clip is further moved, the...

...while being pushed down, a clip was pushed out to the position of clip opening **springs** . Further, a plurality of clips could be charged in a storage portion. After the first...

...so that the next clip could be moved to the portion of the clip opening **springs** . In this clip driver proposed in US Patent No. 4,353,157, it was necessary to move back the **knob** by a finger whenever a new clip was to be positioned to the portion of the clip opening **springs** , so that there was a problem that the operation was troublesome, although a plurality of ...

...996,755, the inventor of this application further proposed a clip driver in which a **knob** protrusion was projected on the upper surface of the front end of a **knob** , while the **knob** was always kept backward and upward by a **spring** . When sheets of paper were to be clipped by this clip driver, the **knob** was pushed down against the elastic force of the **spring** and moved forward to thereby push out a first clip. Since the **knob** was moved up and back when the thumb handling the **knob** was separated from the **knob** , the **knob** could move back, without being disturbed by the next clip, so as to push out...

...to clip end portions of sheets of paper only by the operation to move the **knob** forward, and it became possible to clip sets of sheets of paper continuously. However, to...

...front end side of the clip driver so as to make the clip slide and **move** toward the front end by its own weight. This led to a disadvantage that it...

...SPECIFICATION the sheets of paper are inserted into the paper insertion inlet, and a clip is **moved** toward the paper insertion inlet by the lever. If the clip is further moved, the...

...while being pushed down, a clip was pushed out to the position of clip opening **springs** . Further, a plurality of clips could be charged in a

storage portion. After the first...

...so that the next clip could be moved to the portion of the clip opening **springs** . In this clip driver proposed in US Patent No. 4,353,157, it was necessary to move back the **knob** by a finger whenever a new clip was to be positioned to the portion of the clip opening **springs** , so that there was a problem that the operation was troublesome, although a plurality of ...

...996,755, the inventor of this application further proposed a clip driver in which a **knob** protrusion was projected on the upper surface of the front end of a **knob** , while the **knob** was always kept backward and upward by a **spring** . When sheets of paper were to be clipped by this clip driver, the **knob** was pushed down against the elastic force of the **spring** and moved forward to thereby push out a first clip. Since the **knob** was moved up and back when the thumb handling the **knob** was separated from the **knob** , the **knob** could move back, without being disturbed by the next clip, so as to push out...

...to clip end portions of sheets of paper only by the operation to move the **knob** forward, and it became possible to clip sets of sheets of paper continuously. However, to...

...front end side of the clip driver so as to make the clip slide and **move** toward the front end by its own weight. This led to a disadvantage that it...



26/5,K/2 (Item 2 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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01356295 \*\*Image available\*\*

**A DEVICE FOR SHOOTING A CLIP**

**DISPOSITIF AGRAFEUR**

Patent Applicant/Inventor:

CHOI Yong-Beom, 2th Geoban Bldg., 876-38, Bangbae 4-dong, Seocho-gu,  
Seoul 137-064, KR, KR (Residence), KR (Nationality), (Designated for  
all)

Legal Representative:

HWANG Byung-Do (agent), #206 Regent Bldg., 547-8, Guui-dong, Gwangjin-gu,  
Seoul 143-709, KR

Patent and Priority Information (Country, Number, Date):

Patent: WO 200638745 A1 20060413 (WO 0638745)

Application: WO 2004KR2582 20041008 (PCT/WO KR2004002582)

Priority Application: KR 1020040080167 20041008

Designated States:

(All protection types applied unless otherwise stated - for applications  
2004+)

AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM  
DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KZ LC LK  
LR LS LT LU LV MA MD MG MK MN MW MX MZ NA NI NO NZ OM PG PH PL PT RO RU  
SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW  
(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PL PT RO  
SE SI SK TR  
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG  
(AP) BW GH GM KE LS MW MZ NA SD SL SZ TZ UG ZM ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class (v7): **B42F-001/02**

Publication Language: English

Filing Language: Korean

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 2543

**English Abstract**

Disclosed herein is a device for shooting a clip, and more particularly,  
to a device in which the whole body is formed in the shape of a gun, and  
in which a loaded clip is dispensed by pulling a trigger with the fingers  
of a hand, thereby being capable of binding paper sheets temporarily and  
receiving clips in a gun-shaped grip thereof. A conventional device for  
binding paper sheets or the like by use of a clip generally has a pushing  
knob which is elastically supported by means of a spring, and a clip  
guideway for guiding clips. The pushing knob is pushed forwardly and  
rearwardly along with the clip guideway. When the pushing knob is pushed  
forwardly, a clip is driven forwardly, thereby conducting clipping  
operation.

**French Abstract**

L'invention concerne un dispositifagrafeur, et plus particulierement, un  
dispositif dont le corps entier est sous la forme d'un pistolet, et dans  
lequel une agrafe chargee est distribuee par pression manuelle d'une  
gachette, de maniere a assembler temporairement des feuilles de papier.  
Les dispositifs classiques d'assemblage de feuilles de papier, ou  
analogues, au moyen d'agrafes comportent generalement un bouton-poussoir  
fixe elastique par ressort, ainsi qu'un rail de guidage d'agrafes pour  
guider les agrafes. Le bouton-poussoir est pousse vers l'avant et vers  
l'arriere, conjointement avec le rail de guidage d'agrafes. Lorsque le  
bouton-poussoir est pousse vers l'avant, une agrafe est avancee pour  
permettre l'assemblage des feuilles.

Legal Status (Type, Date, Text)

Publication 20060413 A1 With international search report.

Main International Patent Class (v7): **B42F-001/02**

Fulltext Availability:

Detailed Description

Detailed Description

... the clip insertion opening

17. And the pressuring plate 50 elastically supported by the pressurizing **spring** is connected to a cover plate 70, so that the loaded -clip is pushed forward by the **spring** pressurized when the cover plate is closed.

Furthermore, the pressurized plate 50 has a **latching** protrusion 51 formed at the top portion thereof to be caught by the rear end of the lid 90 so as to prevent the pressurized plate 50 from being **moved** further forwardly under the lid 90, thereby preventing the pressurizing **spring** 60 from being loose.

Accordingly, when the **trigger** 20 is pulled, the retaining tongue 22 is driven forwardly to cooperate with the retaining...

...pushing member

40, so that the guide protrusions 41 slide onto the double stage guide **rail** 12, thereby forwardly pushing a clip one by one.

The advanced clip is widened by...

...invention, sheets of paper

are bound by shooting clips in response to actuation of a **trigger**, thereby arising the interest of a user. This actuation of the **trigger** allows a clip pushing member to ascend and descend by means of the cooperative operation of the guide protrusions and the double-stage guide **rail**, thereby performing an accurate operation. In addition, the grip has an interior space defined in...

26/5,K/6 (Item 6 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00748219 \*\*Image available\*\*

**FASTENER FOR A FOLDER**

**ELEMENT D'ATTACHE DE CLASSEUR**

Patent Applicant/Assignee:

ACCO BRANDS INC, 300 Tower Parkway, Lincolnshire, IL 60069, US, US  
(Residence), US (Nationality)

Inventor(s):

WOLFF Scott S, 2511 Prairie Avenue, Evanston, IL 60201-2233, US  
PFANNER Stephan P J, 925 W. Huron Street #207, Chicago, IL 60622, US  
CARUSO James, 612 Barton, Evanston, IL 60202, US  
MASSEE Bart, 850 Argyle Place #605, Chicago, IL 60640, US

Legal Representative:

WEILD David III, Pennie & Edmonds LLP, 1155 Avenue of the Americas, New York, NY 10036, US

Patent and Priority Information (Country, Number, Date):

Patent: WO 200061381 A1 20001019 (WO 0061381)  
Application: WO 2000US9589 20000410 (PCT/WO US0009589)  
Priority Application: US 99128446 19990409

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM DZ EE ES  
FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU  
LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT  
TZ UA UG UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class (v7): **B42F-013/10**

International Patent Class (v7): **B42F-013/02**

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 5461

**English Abstract**

A binder (10), with a first panel and at least one fastener. The fastener (28) has a base (32) attached to the panel and a binding member (30) positionable in a closed position defining a closed loop, and in an open position in which the loop is open for mounting and dismounting sheets thereto. A lock (76) is disposed in close proximity with the base and in releasable locking association with the binding member in the closed position. A lever (68) is operatively connected with the lock such that depressing the lever in an unlocking direction causes the lock to release the binding member from the closed position.

**French Abstract**

L'invention concerne un classeur (10) comprenant une premiere reliure et au moins un element d'attache. L'element d'attache (28) possede une base (32) fixee a la reliure et un element de reliure (30) qui, en position fermee, definit une boucle fermee qui, lorsque ledit element de reliure est en position ouverte, est ouverte pour permettre d'insérer et de retirer des feuilles. Un mecanisme de blocage (76) dispose a proximite de la base bloque l'element de reliure en position fermee. Un levier (68) est connecte au mecanisme de blocage de maniere qu'en appuyant sur le levier dans le sens du deblocage, le mecanisme de blocage libere l'element de reliure de sa position fermee.

Legal Status (Type, Date, Text)

Publication 20001019 A1 With international search report.

Publication 20001019 A1 Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.

Examination 20010510 Request for preliminary examination prior to end of 19th month from priority date

Main International Patent Class (v7): **B42F-013/10**

International Patent Class (v7): **B42F-013/02**

Fulltext Availability:

Detailed Description

Detailed Description

... preferably part of a guiding portion configured for guiding the free portion 97 into the **locked** 20 association, retained by the lock 98 in the closed position.

Thust the band 92...

...lock 9s, the lock 98 and the 25 locking portion 97 automatically engage in the **locking** association. The guiding portion is preferably of unitary construction with the base 88.

When the **lever** 106 is depressed in the unlocking direction 108, the **locking** tab 96 of the **lock** 98 is moved 30 away from the **locking** tab 95 of the band 92, and the **spring** biases the band 92 out of its **locking** position. A **button** space 124 is defined adjacent the **lever** 106 and disposed such that the **lever** 106 is movable into the space 124 for operating the **lock** 98. The space 124 may be empty, or can include a substantially softer material that is deformable upon depressing of the **lever** 106, but the **lever** 106 is preferably spaced from the back cover 80 for movement towards the **lever** 80 to operate the **lock** .

The unlocking direction 108 is preferably oriented at an angle 125 to the a longitudinal...

...unlocking direction 108 is directed towards the back cover so, The preferred construction of the **fastener** can be 15 unlocked and opened upon simple depression of the lever 106 in the...

26/5,K/7 (Item 7 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00311663

**BINDER MECHANISM**

**MECANISME DE CLASSEUR**

Patent Applicant/Assignee:

LOUIS LEITZ KG,

Inventor(s):

SCHMAUS Thomas,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9529816 A1 19951109

Application: WO 95EP1107 19950324 (PCT/WO EP9501107)

Priority Application: DE 4415371 19940502

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

CN AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT SE

Main International Patent Class (v7): **B42F-013/24**

Publication Language: German

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 2205

**English Abstract**

The invention relates to a binder mechanism with a base plate (10), two spaced filing spikes (12) rising vertically from the base plate (10), a restrictedly pivoting **clamping** bracket (18) fitted on the base plate (10) at a distance from the filing spikes (12), a bearing plate (20) projecting above the base plate in the region between the filing spikes (12) and the **clamping** bracket (18) and a **lever** (22) fitted for restricted movement on the bearing plate (20) and acting on a bulge (26) in the **clamping** bracket (18) against the force of a return **spring** (24). In order to allow documents to be inserted and **removed** on the **clamping** bracket side in the open position of said bracket (18) even at a relatively long travel of the **lever** (22), the invention proposes a **release** member (30) **releasably** couplage to the **lever** (22) and bearing the **holding** -down component (28) designed to **trigger** the opening of the **clamping** bracket without using the **lever**.

**French Abstract**

L'invention concerne un mecanisme de classeur, comprenant une plaque de base (10), deux tiges de rangement (12) espacees, placees verticalement par rapport a la plaque de base (10), un arceau basculant (18) pouvant pivoter de facon limitee sur la plaque de base (10), a distance des tiges de rangement (12), une plaque palier (20) situee au-dessus de la plaque de base, entre les tiges de rangement (12) et l'arceau basculant (18), ainsi qu'un levier (22), pouvant pivoter de facon limitee sur la plaque palier (20) et agissant sur un coude (26) de l'arceau basculant (18) a l'encontre de la force d'un ressort de rappel (24). L'invention vise a permettre d'insérer et de retirer des documents du cote de l'arceau basculant (18), lorsque ce dernier est en position ouverte, meme si la course du levier (22) est relativement importante. A cet effet, un element de declenchement (30) pouvant etre couple de facon amovible avec le levier (22) et comportant l'organe (28) de maintien en position basse, est concu pour declencher l'ouverture de l'arceau basculant (18) sans intervention du levier (22).

Main International Patent Class (v7): **B42F-013/24**

**English Abstract**

...two spaced filing spikes (12) rising vertically from the base plate

(10), a restrictedly pivoting **clamping** bracket (18) fitted on the base plate (10) at a distance from the filing spikes...

...projecting above the base plate in the region between the filing spikes (12) and the **clamping** bracket (18) and a **lever** (22) fitted for restricted movement on the bearing plate (20) and acting on a bulge (26) in the **clamping** bracket (18) against the force of a return **spring** (24). In order to allow documents to be inserted and **removed** on the **clamping** bracket side in the open position of said bracket (18) even at a relatively long travel of the **lever** (22), the invention proposes a **release** member (30) **releasably** couplage to the **lever** (22) and bearing the **holding** -down component (28) designed to **trigger** the opening of the **clamping** bracket without using the **lever**.

Set	Items	Description
S1	253241	LOCK?? OR LOCKING
S2	315003	FASTEN? OR CLAMP? ? OR HOLDER? ?
S3	73867	LATCH?? OR LATCHING
S4	75788	HOOK OR HOOKS
S5	246544	PIN OR PINS
S6	108804	HOOKEED OR HOOKING OR CLASP?? OR CLASPING OR CATCH?? OR CAT- CHING OR GRASP?? OR GRASPING
S7	661527	CLAMP? OR HOLDING OR HELD OR HOLDER? ?
S8	342774	SPRING? OR SPRUNG
S9	208899	BUTTON? ? OR TRIGGER? ? OR KNOB OR KNOBS OR NUB OR NUBS
S10	391099	RAIL OR RAILS OR BAR OR BARS
S11	434085	CROSS?() (MEMBER? ? OR BAR? ? OR PIECE? ?) OR ROD OR RODS OR SHAFT OR SHAFTS OR CROSSBAR? ? OR BATTEN? ? OR BILLET? ? OR - LEVER? ?
S12	1518739	DETACH? OR REMOVE? ? OR REMOVING OR REMOVABLE OR SEPERAT? - OR SEPARABLE OR DISPLACE? OR MOBILE OR RELEASE? ? OR RELEASING OR RELEASABL? OR MOVE? ? OR MOVING OR MOVABLE OR DISCONNECT?
S13	241	(S1 OR S2) (30N) S3 (30N) S4 (30N) S8 (30N) S9 (30N) (S10 - OR S11) (30N) S12
S14	0	S13 AND IC=B42F
S15	45	S13 AND IC=(E05B OR E05C OR E05D)
S16	45	IDPAT (sorted in duplicate/non-duplicate order)
S17	44	IDPAT (primary/non-duplicate records only)
S18	831897	GUIDE? ? OR GUIDING OR SLIDE? ? OR SLIDING OR SWING? OR PI- VOT? OR AXIAL? OR GLIDE? ? OR GLIDING OR SLIP? ? OR SLIPPED OR SLIPPING
S19	223	S13 (30N) S18
S20	40	S19 AND IC=(E05B OR E05C OR E05D)
S21	40	IDPAT (sorted in duplicate/non-duplicate order)
S22	39	IDPAT (primary/non-duplicate records only)
S23	8079	(S1 OR S2 OR S3 OR S4 OR S6 OR S7) (30N) S8 (30N) S9 (30N) (S10 OR S11) (30N) S12
S24	7	S23 AND IC=B42F
S25	7	IDPAT (sorted in duplicate/non-duplicate order)
S26	7	IDPAT (primary/non-duplicate records only)

File 348:EUROPEAN PATENTS 1978-2006/ 200629...  
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File 349:PCT FULLTEXT 1979-2006/UB=20060720,UT=20060713  
(c) 2006 WIPO/Univentio

22/5,K/1 (Item 1 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
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02007224

**Latch device for portable computer**  
**Verriegelungsvorrichtung für tragbaren Rechner**  
**Dispositif de verrouillage pour ordinateur portable**

PATENT ASSIGNEE:

LG ELECTRONICS INC., (4600162), 20, Yoido-dong, Youngdungpo-gu, Seoul  
City, (KR), (Applicant designated States: all)

INVENTOR:

Yang, Hyun Suk, 103-1002, Sunkyong Apartment Jeonnong 3-dong,  
Dongdaemun-gu Seoul City 130-769, (KR)

LEGAL REPRESENTATIVE:

Vossius & Partner (100314), Siebertstrasse 4, 81675 Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 1615105 A1 060111 (Basic)

APPLICATION (CC, No, Date): EP 2005009220 050427;

PRIORITY (CC, No, Date): KR 204052465 040706

DESIGNATED STATES: AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR;  
HU; IE; IS; IT; LI; LT; LU; MC; NL; PL; PT; RO; SE; SI; SK; TR

EXTENDED DESIGNATED STATES: AL; BA; HR; LV; MK; YU

INTERNATIONAL CLASSIFICATION (V8 + ATTRIBUTES):

IPC + Level Value Position Status Version Action Source Office:

G06F-0001/16 A I F B 20060101 20051027 H EP

E05C-0001/10 A I L B 20060101 20051027 H EP

ABSTRACT EP 1615105 A1

A latch device (40) for a portable computer secures a main body (20) to a foldable display (30). The main body may be folded onto or unfolded with respect to the display (30) about a hinge (26). The latch device (40) may include a latch installation portion (42) that is formed on a rear case (31) of the display (30); a latch (60) that is seated in the latch installation portion (42) and may include a hook (69) which passes through a front case (32) of the display (30) and protrudes forward from a front end of the display to be selectively hooked into a catching groove (26) on the main body (20); and an elastic member (70) that provides an elastic force in a direction in which the hook (69) of the latch (60) is hooked into the catching groove (26) of the main body (20). A release mechanism (67) that is exposed to the exterior of an end of the display (30) to receive a driving force inputted for moving the latch (60). Accordingly, the locking engagement between the display (30) and the main body (20) of the portable computer is more secure, and the latch (60) is easily assembled and disassembled.

ABSTRACT WORD COUNT: 205

NOTE:

Figure number on first page: 2

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 060111 A1 Published application with search report

Examination: 060111 A1 Date of request for examination: 20050525

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200602	1202
SPEC A	(English)	200602	4779
Total word count - document A			5981
Total word count - document B			0
Total word count - documents A + B			5981

INTERNATIONAL CLASSIFICATION (V8 + ATTRIBUTES):

IPC + Level Value Position Status Version Action Source Office:

... E05C-0001/10 A I L B 20060101 20051027 H EP



...SPECIFICATION cooperate with the slot forming portions 32' of the front case 32 to form the **release** mechanism slots 67' for movement of the release mechanisms 67, respectively.

Mounting bosses 38 protrude...

...the elastic member seating space 45 with the elastic member 70 being installed therein. The **hook** 69 passes through the **hook** slot 47 and protrudes forward away from the display. The guide 62' is movably positioned...

...the elastic member seating spaces 45 are closed by the antenna cover 36. Therefore, the **latches** 60 are completely assembled to the rear case 31 by the antenna cover 36. At...

...positioned within the slot forming portions 37 of the antenna cover 36, respectively.

Since the **latches** 60 are completely assembled to the rear case 31 by the antenna cover 36, the assembling process of the **latches** 60 may be performed regardless of the installation of the liquid crystal panel 33, e...

...the display module has actually been installed. For example, the rear case 31 with the **latch** 60 previously assembled may be introduced into an assembly line of the portable computer.

After...

...32, and then completely and more securely fastened thereto by screws.

An operation of the **latch** 60 will be described in greater detail hereinafter. If the display 30 is folded onto the main body 20, the **hooks** 69 of the **latches** 60 are automatically hooked into the catching grooves 26 of the main body 20. When...

...display 30 is folded onto the main body 20, the catching projections 69' of the **hooks** 69, which protrude forward from the front case 32, enter the catching grooves 26, respectively.

When the catching projection 69' enters the catching groove 26, the **latch** 60 moves in a direction in which the elastic member 70 is compressed with the elastic force of the elastic member 70 being overcome. For example, the **latch** 60 moves in the direction of an arrow A shown in FIG. 6A. When the **latch** 60 moves, the guide 62' is guided in the guide slot 49, and the **hook** 69 is guided in the **hook** slot 47 and the through slot 32s.

If the catching projection 69' fully enters the...

...by the user's fingers. If the forces for holding the release mechanisms 67 are **removed**, the latches 60 are returned to their initial positions by the restoring forces of the...

22/5,K/2 (Item 2 from file: 348)  
 DIALOG(R)File 348:EUROPEAN PATENTS  
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01855768

**Bidirectional latch assembly and electronic apparatuses using the same**  
**Bidirektionale Schliessvorrichtung und elektronische Gerate die diese**  
**Vorrichtung verwenden**  
**Dispositif de fermeture bidirectionnel et appareils electroniques utilisant**  
**ledit dispositif**

PATENT ASSIGNEE:

LG ELECTRONICS INC., (1914270), 20, Yoido-Dong, Youngdungpo-gu, Seoul,  
 (KR), (Applicant designated States: all)

INVENTOR:

Lai-o, Kang, 407, C-dong, Cheongho-ri 19-1, Jinwi-myeon, Pyeongtaek-si,  
 Gyeonggi-do, (KR)

LEGAL REPRESENTATIVE:

VOSSIUS & PARTNER (100314), Siebertstrasse 4, 81675 Munchen, (DE)  
PATENT (CC, No, Kind, Date): EP 1507187 A1 050216 (Basic)  
APPLICATION (CC, No, Date): EP 2004005304 040305;  
PRIORITY (CC, No, Date): KR 203055521 030811  
DESIGNATED STATES: DE; FR; GB; NL  
EXTENDED DESIGNATED STATES: AL; LT; LV; MK  
INTERNATIONAL PATENT CLASS (V7): G06F-001/16; **E05B-073/00**  
ABSTRACT EP 1507187 A1

Embodiments of a bidirectional latch assembly, methods for using same and an electronic apparatus using the same can provide a bidirectional latch assembly whereby both faces of one of two bodies constituting an electronic apparatus can be selectively latched to the other body. A bidirectional latch assembly can include a casing (100) having a seating groove (108) formed with a passage hole, a pressure member (140) in the seating groove (108) and having a seating surface on one side thereof, and a latch (120) insertable into the passage hole and having one surface seated on the seating surface. The latch (120) can include a frame formed with a pair of latching holes (124a,124b) on opposite sides therein, and a pair of catching protrusions (128) integrally formed with the frame at opposite edges along the sides (e.g., middle) of the frame. A keeper (210) can selectively engage with either one of the pair of latching holes (124a,124b) (Fig. 2a).

ABSTRACT WORD COUNT: 159

NOTE:

Figure number on first page: 2a

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 050216 A1 Published application with search report  
Examination: 050706 A1 Date of request for examination: 20050504  
Change: 060510 A1 Title of invention (German) changed: 20060510  
Change: 060510 A1 Title of invention (English) changed: 20060510  
Change: 060510 A1 Title of invention (French) changed: 20060510

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200507	1616
SPEC A	(English)	200507	6374
Total word count - document A			7990
Total word count - document B			0
Total word count - documents A + B			7990

...INTERNATIONAL PATENT CLASS (V7): **E05B-073/00**

...SPECIFICATION and more particularly, to a bidirectionally lockable latch assembly.

A latch structure is used to **lock** or unlock a first body to or from a second body. There have been proposed...

...portion 50 of the latch member 54 is pressed against an inner surface of the **latch** knob 44.

Further, a through-hole 64 is formed at a front end portion of the keyboard unit 40 that vertically faces the catching portion 52 of the **latch** member 54. A **hook** 70 provided with a through-hole 68 at the center thereof is secured on a...

...computer 10 is not in use (i.e., closed), the cam portion 50 of the **latch** member 54 that is in close contact with the inner surface of the **latch** knob 44 pivots on the fixed shaft 46 in a counterclockwise direction. With the pivoting of the cam portion 50, the catching portion 52 of the **latch** member 54 interlocked with the cam portion 50 also pivots.

Meanwhile, when the user removes the force, that has been exerted on the **latch** knob 44, in a state where the **hook** 70 protruding from the

display unit 66 of the notebook computer 10 is fully inserted into the through-hole 64 of the keyboard unit 40, the **latch** member 54 moves in a clockwise direction because of a resilient force of the second...

...that is resiliently supported by the groove 62 formed in the outer surface of the **latch** member 54, as shown in FIG. 1b. With the movement, the catching portion 52 of the **latch** member 54 is inserted into and closely engaged with the through-hole 68 of the **hook** 70 so that the display unit 66 and the keyboard unit 40 are fastened to each other.

As described above, the prior art **latch** structure shown in FIGS 1a-1b has various disadvantages. The prior art **latch** structure can lock a display unit to a main body of an electronic apparatus only...

...advantages described hereinafter.

Another object of the present invention is to provide a bidirectionally lockable **latch** assembly and method.

Another object of the present invention is to provide a bidirectionally lockable...

...provide a bidirectionally lockable latch assembly and method that can reduce locking failure during a **locking** operation.

In order to achieve at least the above objects and advantages in a whole...

22/5,K/3 (Item 3 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

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01646710

**LOCK, ESPECIALLY FOR AUTOMOTIVE DOORS, FLAPS OR THE LIKE**

**SCHLOSS, INSBESONDERE FÜR KRAFTFAHRZEUGTÜREN, -KLAPPEN OD. DGL.**

**SERRURE, EN PARTICULIER POUR PORTES DE VEHICULE, BATTANTS OU ANALOGUES**

PATENT ASSIGNEE:

Huf Hulsbeck & Furst GmbH & Co. KG, (550542), Steeger Strasse 17, 42551

Velbert, (DE), (Proprietor designated states: all)

DaimlerChrysler AG, (2635410), Epplestrasse 225, 70567 Stuttgart,

DE\ (Proprietor designated states: , DE)

INVENTOR:

ORZECZ, Udo, Linde 4, 42287 Wuppertal, (DE)

UECKER, Stefan, Peter-Polheim-Strasse 4, 40882 Ratingen, (DE)

SCHULER, Eckart, VordereHalde 33, 71063 Sindelfingen, (DE)

LEGAL REPRESENTATIVE:

Mentzel, Norbert et al (8312), Patentanwalte Dipl.-Phys. Buse,

Dipl.-Phys. Mentzel, Dipl.-Ing. Ludewig, Kleiner Werth 34, 42275

Wuppertal, (DE)

PATENT (CC, No, Kind, Date): EP 1485558 A1 041215 (Basic)

EP 1485558 B1 060125

WO 2003071065 030828

APPLICATION (CC, No, Date): EP 2003702424 030111; WO 2003EP220 030111

PRIORITY (CC, No, Date): DE 10206813 020219

DESIGNATED STATES (Pub A): AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR;

GB; GR; HU; IE; IT; LI; LU; MC; NL; PT; SE; SI; SK; TR; (Pub B): DE; FR;

GB; IT

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO

INTERNATIONAL PATENT CLASS (V7): **E05B-065/12**

INTERNATIONAL CLASSIFICATION (V8 + ATTRIBUTES):

IPC + Level Value Position Status Version Action Source Office:

**E05B-0065/12** A I F B 20060101 20030830 H EP

CITED REFERENCES (EP A):

See references of WO 03071065A1;

NOTE:

No A-document published by EPO

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 031022 A1 International application. (Art. 158(1))  
 Application: 031022 A1 International application entering European phase  
 Application: 041215 A1 Published application with search report  
 Examination: 041215 A1 Date of request for examination: 20040812  
 Assignee: 051221 A1 Transfer of rights to new applicant: Huf  
 Hulsbeck & Furst GmbH & Co. KG (550542) Steeger  
 Strasse 17 42551 Velbert DE  
 DaimlerChrysler AG (2635410) Epplestrasse 225  
 70567 Stuttgart DE  
 (Applicant designated states: DE)  
 Change: 051221 A1 Legal representative(s) changed 20051031  
 Grant: 060125 B1 Granted patent

LANGUAGE (Publication,Procedural,Application): German; German; German  
 FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	200604	1186
CLAIMS B	(German)	200604	958
CLAIMS B	(French)	200604	1235
SPEC B	(German)	200604	2968
Total word count - document A			0
Total word count - document B			6347
Total word count - documents A + B			6347

INTERNATIONAL PATENT CLASS (V7): **E05B-065/12**

INTERNATIONAL CLASSIFICATION (V8 + ATTRIBUTES):

IPC + Level Value Position Status Version Action Source Office:

**E05B-0065/12** A I F B 20060101 20030830 H EP

...CLAIMS rotary latch (20) after the catch (30) has been lifted,

characterised in that

a load **lever** (50), which can be pivoted about the pivot axis (51) and moved into the path...

...arm (38) of the catch (30) and lifts the catch (30) out of the main **latching** position or out of the prelatching position on the rotary **latch** (20) counter to a restoring force (F2).

7. Lock according to one of claims 1-6, characterised in that, after the catch (30) has been lifted out of the main **latching** position or out of the prelatching position on the rotary **latch** (20), it is brought by the actuating element (40) into an overstroke position, as a result of which the **hook** (34) on the catch (30) is held a certain distance (h) away from the circumference of the rotary **latch** (20).

8. Lock according to one of claims 1-7, characterised in that the actuating...

...30) in its overstroke position is thus at its maximum distance (h) from the rotary **latch** (20), and in that, upon the further movement of the actuating element (40) in rotational...

...that the blocking surface section (45) which has run up against the blocking element (37) **triggers** a drive stop signal and/or a signal for restoring the gearbox to the home...

...when the catch (30) is located in the main stop notch (26) on the rotary **latch** (20).

12. Lock according to one of claims 1-11, characterised in that a spring loading (F2) causes the **hook** (34) of the catch (30) to drop into the main stop notch (26) or into the pre-stop notch (25) of the rotary **latch**.

13. Lock according to one of claims 1-12, characterised in that - after the catch (30) has been raised - the rotary **latch** (20) is automatically guided by the **spring** loading (F1) acting on it out of

its prelatching position or out of its main **latching** position into its open position.

14. Lock according to one of claims 1-13, characterised in that, to prevent the catch (30) from dropping back into the rotary **latch** (20), a spring-loaded (F4) projection (54) of the load lever (50) blocks the outward...

...30), it is moving in the pivoting direction (57), whereas the rotary latch (20) is **moving** in the opposite rotational direction (22).

22/5,K/4 (Item 4 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
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01621482

**Lock for a sliding door or gate**

**Verschluss fur Schiebetur oder -tor**

**Serrure pour porte coulissante ou portail coulissant**

PATENT ASSIGNEE:

Talpe, Joseph, Jr., (1740300), Oudenaardsesteenweg 543, B-8581  
Avelgem-Kerkhove, (BE), (Applicant designated States: all)

INVENTOR:

Talpe, Joseph, Jr., Oudenaardsesteenweg 543, B-8581 Avelgem-Kerkhove,  
(BE)

LEGAL REPRESENTATIVE:

Van Reet, Joseph et al (81011), Gevers & Vander Haeghen, Intellectual  
Property House, Brussels Airport Business Park Holidaystraat 5, 1831  
Diegem, (BE)

PATENT (CC, No, Kind, Date): EP 1336708 A1 030820 (Basic)

APPLICATION (CC, No, Date): EP 2003447022 030211;

PRIORITY (CC, No, Date): EP 2002447021 020211

DESIGNATED STATES: AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR;  
HU; IE; IT; LI; LU; MC; NL; PT; SE; SI; SK; TR

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO

INTERNATIONAL PATENT CLASS (V7): **E05B-065/08 ; E05C-003/00**

ABSTRACT EP 1336708 A1

The lock comprises a frame (5), at least one bolt (4), in particular a latch bolt which projects in a predetermined direction out of the frame, a bolt operating mechanism (26, 31, 32) and means (20, 24) for mounting at least one hand operated actuating element (21) for said bolt operating mechanism on the frame so that this actuating element can rotate on the frame according to a rotation axis (25) extending in particular perpendicular to said predetermined direction. The bolt (4) comprises a shaft portion (38) and at least one laterally projecting lock wing (39) and is rotatably mounted on the frame according to a further rotation axis (37) extending in said predetermined direction, the bolt operating mechanism being arranged to rotate the bolt (4) between a first angular orientation, wherein the lock wing (39) of the bolt is in the locking position, and a second angular orientation, wherein the lock wing of the bolt is in the unlocking position.

ABSTRACT WORD COUNT: 162

NOTE:

Figure number on first page: 3

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 030820 A1 Published application with search report

Examination: 040407 A1 Date of request for examination: 20040207

Examination: 041229 A1 Date of dispatch of the first examination  
report: 20041115

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text Language Update Word Count

CLAIMS A	(English)	200334	1067
SPEC A	(English)	200334	4822
Total word count	- document A		5889
Total word count	- document B		0
Total word count	- documents A + B		5889

INTERNATIONAL PATENT CLASS (V7): **E05B-065/08** ...

... **E05C-003/00**

...SPECIFICATION A1

The present invention relates to a **lock** for a sliding door or gate comprising a frame; a latch bolt comprising a shaft...

...locks for sliding doors or gates are known, the bolts of which are hook-shaped **latch** bolts which can pivot about an axis in order to hook behind a reception element...

...rotation axis of the hook-shaped bolt. By rotating the door knob or handle, the **hook** -shaped bolt can be lifted by means of the bolt operating mechanism to unlock the door.

In this known lock a quite heavy **hook** -shaped **latch** bolt, or even a double **latch** bolt, must be provided. Indeed, when closing the sliding door or gate, the rebound of...

...is fixed may cause considerably large forces in the bolt. A drawback of such a **hook** -shaped **latch** bolt is that when mounting the lock against a profile of the door or the...

...the bolt in the profile. This is not only due to the dimensions of the **latch** bolt itself but also to the fact that the **hook** -shaped bolt must be enabled to move transversally to its longitudinal direction in the hole in the profile in order to be able to **hook** behind the bolt reception element to lock the door.

Instead of using a **hook** -shaped **latch** bolt which pivots about an axis to **hook** behind a reception element, the lock according to the present invention employs a **latch** bolt which comprises a shaft portion provided with at least one lock wing and which...

...disclosed in US-A-4 159 138 comprises a handle operated mechanism to rotate the **latch** bolt to its unlocking position in order to be able to open the door. In...

...lock and that it requires a relative large construction around the latch bolt. Consequently, the **lock** disclosed in GB-B-1 111 513 is not suited for being mounted against an...

22/5,K/5 (Item 5 from file: 348)  
 DIALOG(R)File 348:EUROPEAN PATENTS  
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01383501

**Mortise lockset with internal clutch**

**Einsteckschloss mit interner Kupplung**

**Serrure a mortaise avec embrayage interne**

PATENT ASSIGNEE:

Harrow Products Inc., (2293531), 200 Chestnut Ridge Road, Woodcliff Lake, New Jersey 07675, (US), (Applicant designated States: all)

INVENTOR:

Frolov, George, 23 Woodruff Road, Farmington, Connecticut 06032, (US)

LEGAL REPRESENTATIVE:

Hague, Alison Jane (73211), Frank B. Dehn & Co., European Patent Attorneys, 179 Queen Victoria Street, London EC4V 4EL, (GB)

PATENT (CC, No, Kind, Date): EP 1174570 A1 020123 (Basic)

APPLICATION (CC, No, Date): EP 2001306247 010720;  
PRIORITY (CC, No, Date): US 621197 000721  
DESIGNATED STATES: DE; FR; GB  
EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI  
INTERNATIONAL PATENT CLASS (V7): E05B-047/06 ; E05B-063/16 ; E05B-063/20

ABSTRACT EP 1174570 A1

A mortise lockset incorporates an electrically actuated clutch (88,90,92) within the lock case (100). The clutch (88,90,92) selectively engages one latch operator (80) to permit access through a door equipped with the lockset. The lockset further includes a key rotatable cam (62) for retracting the latch (12;13). The lockset includes a lock bar (50) that permits retraction of the latch (12;13) by means external to the lockset. An extended throw deadbolt-like latch (12) is held in a retracted position by an auxiliary latch (40) and hook (42) until released by retraction of the auxiliary latch (40). The latch (12) incorporates a recessed roller (16) in the projected end (14) of the latch (12) to facilitate latch deployment.

ABSTRACT WORD COUNT: 118

NOTE:

Figure number on first page: 1

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 020123 A1 Published application with search report  
Examination: 020918 A1 Date of request for examination: 20020722  
Examination: 030514 A1 Date of dispatch of the first examination report: 20030331

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200204	1933
SPEC A	(English)	200204	6629
Total word count - document A			8562
Total word count - document B			0
Total word count - documents A + B			8562

INTERNATIONAL PATENT CLASS (V7): ~~E05B-047/06~~ ...

... ~~E05B-063/16~~ ...

... ~~E05B-063/20~~

...SPECIFICATION form a camming surface which will engage protruding parts of the lockset as the door **swings** closed. The strike includes a latch opening 76 for receiving the latch and/or bolt...

...is released.

With reference now to Figures 9 and 13, a closing door brings the **latch** edge of the door, including the face plate 102 of the lockset and its protruding parts (the auxiliary **latch** 40 and the outer end 14 of the bolt 12), into an opposing parallel relationship...

...the door frame 72 and the strike 75. The bi-beveled tip of the auxiliary **latch** 40 encounters the strike 75 at location 78. The curved outer lip 74 of the...

...the strike 75 at location 79 relieves some pressure from the hooked engagement between the **latch** 12 and the **hook** 42. Inward movement of the auxiliary **latch** 40 causes pin 46 to move in slot 47 of the **hook** 42, pivoting the **hook** away from its engagement with the notch 18 in the bolt 12. As pictured in Figure 9, the bolt 12 is now outwardly biased by spring 28, disengaged from the **hook** 42 and engaged with the strike at area 79. The slightly beveled configuration of the...

...bolt 12. The bolt rolls across the strike 75 until it is aligned with the **latch** opening 76 where the bolt projects into the opening, providing a **latched** engagement between the door and the door frame. Figure 10 illustrates the positions of the auxiliary **latch** 40, **hook** 42 and bolt 12 in a closed and **latched** door.

It should be noted that the shape and extended projection of the bolt 12...

...can be manipulated by a thin tool in the manner applied to a typical self- **latching** lockset.

The latch retraction and access control features of the mortise lockset 10 are best...

...In a locked position, the locking pin 83 and locking piece 82 are permitted to **move** away from the common axis of rotation shared by the inside cam 81, outside cam...

22/5,K/6 (Item 6 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
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01289285

**Manually operated locking mechanism**

**Handbetätigte Schliessvorrichtung**

**Dispositif de verrouillage à actionnement manuel**

PATENT ASSIGNEE:

Avocet Hardware PLC, (2600400), Brookfoot Mills, Elland Road, Brighouse,  
West Yorkshire HD6 2RW, (GB), (Applicant designated States: all)

INVENTOR:

Rogers, John, Avocet Hardware plc, Brookfoot Mills, Elland Road,  
Brighouse HD6 2RW, (GB)  
Collins, Paul, Avocet Hardware plc, Brookfoot Mills, Elland Road,  
Brighouse HD6 2RW, (GB)

LEGAL REPRESENTATIVE:

Orr, William McLean (34533), URQUHART-DYKES & LORD 5th Floor, Tower House  
Merrion Way, Leeds West Yorkshire, LS2 8PA, (GB)

PATENT (CC, No, Kind, Date): EP 1106757 A2 010613 (Basic)  
EP 1106757 A3 030102

APPLICATION (CC, No, Date): EP 2000310820 001206;

PRIORITY (CC, No, Date): GB 9929089 991209

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;  
LU; MC; NL; PT; SE; TR

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS (V7): ~~E05B-059/00~~ ; ~~E05C-009/00~~ ; ~~E05C-009/02~~

ABSTRACT EP 1106757 A2

A manually operated locking mechanism (10) for a closure member, such as an openable door or window, said mechanism being adapted to be mounted in a closing face of the closure member and comprising: a housing (11); a deadbolt (12) mounted in the housing (11) for movement between a withdrawn position within the housing and a projecting locking position; a manually operable actuator element mounted on the housing (11) for movement from a datum position in a locking direction or an opposite unlocking direction in order respectively to lock and unlock the mechanism (10); an actuating mechanism (20) in the housing (11) which is engageable with the deadbolt (12) in order to displace the deadbolt to the locking position when the actuator element is moved in the locking direction; a tumbler (13) mounted in the mechanism (10) and adjustable between a first mode of operation in which it allows the deadbolt (12) to move to, and be maintained in the locking position when the actuator element is moved in the locking direction from the datum position, and a second mode of operation in which it allows the deadbolt to be returned



to the withdrawn position when the actuator element is moved in the opposite direction from the datum position; and, a disabling arrangement (16) operative to initiate unlocking of the mechanism (10) by effecting adjustment of the tumbler (13) to the second mode of operation, said arrangement including a biasing arrangement (16) which is operative to hold the tumbler (13) in its second mode so that movement of the actuator element in the unlocking direction can effect withdrawal of the deadbolt (12), and also disengagement of the biasing arrangement (16) from the tumbler (13).

ABSTRACT WORD COUNT: 285

NOTE:

Figure number on first page: 1

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 010613 A2 Published application without search report  
Change: 030102 A2 International Patent Classification changed:  
20021114  
Search Report: 030102 A3 Separate publication of the search report  
Examination: 030820 A2 Date of request for examination: 20030618  
Examination: 031112 A2 Date of dispatch of the first examination  
report: 20030924  
Withdrawal: 040811 A2 Date application deemed withdrawn: 20040106

LANGUAGE (Publication, Procedural, Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200124	592
SPEC A	(English)	200124	2705
Total word count - document A			3297
Total word count - document B			0
Total word count - documents A + B			3297

INTERNATIONAL PATENT CLASS (V7): ~~E05B-059/00~~ ...

... ~~E05C-009/00~~ ...

... ~~E05C-009/02~~

...SPECIFICATION an actuating mechanism in the housing which is engagable with the deadbolt in order to **displace** the deadbolt to the locking position when the actuator element is moved in the locking...

...operated actuator element preferably comprises a rotatable handle, but may comprise, as an alternative, a **knob** set.

The provision of a deadbolt is a minimum requirement in a locking mechanism according...

...the invention, and which will preferably be a central deadbolt, operating in conjunction with a **latch** which is also operable ... closure member (door) the disabling arrangement may comprise a so-called "thumb turn".

Preferably, the **locking** mechanism of the invention is incorporated in a multi-point **locking** arrangement, which may include one or more additional **locking** elements such as: **locking** cams; pivotable **hooks** or deadbolts and shootbolts. The additional **locking** element(s) is connected to the **locking** mechanism by a respective actuator e.g. a linearly displaceable rod which is operative to move the element to the **locking** position when the actuating mechanism is operated to move the central deadbolt to the projected **locking** position.

The rotation of the key (to initiate the unlocking sequence) preferably applies displacement movement...

...unlocking direction can then effect withdrawal of the deadbolt.

Preferably, the biasing arrangement comprises a **spring** loaded element which is carried by the deadbolt, i.e. moves with it, but which holds the tumbler in the displaced position for the second mode of operation.

However, the **spring** arrangement allows the tumbler to return automatically to its original position (ready to initiate the further **locking** action) when the unlocking action of the handle has been completed.

A preferred embodiment of manually operated **locking** mechanism according to the invention will now be described in detail, by way of example...

...accompanying drawings, in which:

Figure 1 is a longitudinal sectional view of a handle operated **locking** mechanism for an openable door, and mounted in a closing face thereof, showing a tumbler...

22/5,K/7 (Item 7 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
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01276581

**A METHOD FOR CONTROL OF IN AND OUT PASSAGE BY MEANS OF A LOCKING SYSTEM, A LOCKING SYSTEM FOR PERFORMING THE METHOD AND A MOTOR-LOCK INTEGRATED INTO SAID LOCKING SYSTEM**

**VERFAHREN ZUR ZU- UND AUSGANGSKONTROLLE MITTELS EINES SPERRSYSTEMS, SPERRSYSTEM ZUR AUSFUEHRUNG DES VERFAHRENS UND EIN IN DAS SPERRSYSTEM INTEGRIERTES MOTORSCHLOSS**

**PROCEDE DE COMMANDE D'ENTREE ET DE SORTIE AU MOYEN D'UN SYSTEME DE VERROUILLAGE, SYSTEME DE VERROUILLAGE METTANT CE PROCEDE EN APPLICATION ET VERROU MOTORISE INTEGRE DANS LEDIT SYSTEME DE VERROUILLAGE**

PATENT ASSIGNEE:

SE Development Aktiebolag, (3274441), Rosengrand 12, 665 32 Kil, (SE),  
(Proprietor designated states: all)

INVENTOR:

GUSTAFSSON, Niclas, Elisebergsgatan 29; S-662 35 Amal, (SE)

LEGAL REPRESENTATIVE:

Johansson, Lars E. et al (23214), Hynell Patenttjanst AB Patron Carls Vag  
2, 683 40 Hagfors/Uddeholm, (SE)

PATENT (CC, No, Kind, Date): EP 1222349 A1 020717 (Basic)  
EP 1222349 B1 040915  
EP 1222349 B1 040915  
WO 2001018331 010315

APPLICATION (CC, No, Date): EP 2000931835 000512; WO 2000SE949 000512

PRIORITY (CC, No, Date): SE 993127 990903

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;  
LU; MC; NL; PT; SE

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS (V7): ~~E05B-041/00~~ ; ~~E05B-047/00~~

CITED PATENTS (EP B): EP -0733759 A; EP -0861959 A; DE -3309962 A; DE  
-4213141 A; US 4593543 A; US 4929005 A

CITED PATENTS (WO A): US 4929005 A ; DE 4213141 A1; EP 733759 A1; EP 861959  
A1; US 4593543 A ; DE 3309962 A1

NOTE:

No A-document published by EPO

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 010509 A1 International application. (Art. 158(1))

Application: 010509 A1 International application entering European  
phase

Application: 020717 A1 Published application with search report

Examination: 020717 A1 Date of request for examination: 20020402

Change: 021218 A1 Legal representative(s) changed 20021025

Assignee: 040811 A1 Transfer of rights to new applicant: SE  
Development Aktiebolag (3274441) Rosengrand 12  
665 32 Kil SE

Change: 040908 A1 Inventor information changed: 20040720

Assignee: 040811 A1 Transfer of rights to new applicant: SE

Development Aktiebolag (3274441) Rosengrand 12  
665 32 Kil SE

Grant: 040915 B1 Granted patent  
Change: 040908 A1 Inventor information changed: 20040720  
Grant: 040915 B1 Granted patent  
Lapse: 050316 B1 Date of lapse of European Patent in a contracting state (Country, date): FI 20040915,  
Lapse: 050330 B1 Date of lapse of European Patent in a contracting state (Country, date): AT 20040915, FI 20040915,  
Lapse: 050504 B1 Date of lapse of European Patent in a contracting state (Country, date): AT 20040915, FI 20040915, GR 20041215,  
Lapse: 050525 B1 Date of lapse of European Patent in a contracting state (Country, date): AT 20040915, CH 20040915, LI 20040915, FI 20040915, GR 20041215,  
Lapse: 050713 B1 Date of lapse of European Patent in a contracting state (Country, date): AT 20040915, BE 20040915, CH 20040915, LI 20040915, FI 20040915, GR 20041215,  
Oppn None: 050907 B1 No opposition filed: 20050616  
Lapse: 051116 B1 Date of lapse of European Patent in a contracting state (Country, date): FI 20040915, AT 20040915, GR 20041215, CH 20040915, LI 20040915, BE 20040915, DK 20041215,  
Change: 060118 B1 Title of invention (German) changed: 20060118  
Change: 060118 B1 Title of invention (English) changed: 20060118  
Change: 060118 B1 Title of invention (French) changed: 20060118  
Change: 060405 B1 Title of invention (German) changed: 20060405  
Change: 060405 B1 Title of invention (English) changed: 20060405  
Change: 060405 B1 Title of invention (French) changed: 20060405  
Change: 060621 B1 Title of invention (German) changed: 20060621  
Change: 060621 B1 Title of invention (English) changed: 20060621  
Change: 060621 B1 Title of invention (French) changed: 20060621  
LANGUAGE (Publication,Procedural,Application): English; English; Swedish  
FULLTEXT AVAILABILITY:  
Available Text Language Update Word Count  
CLAIMS B (English) 200438 675  
CLAIMS B (German) 200438 668  
CLAIMS B (French) 200438 773  
SPEC B (English) 200438 7447  
Total word count - document A 0  
Total word count - document B 9563  
Total word count - documents A + B 9563

INTERNATIONAL PATENT CLASS (V7): ~~E05B~~-041/00 ...

... ~~E05B~~-047/00

...SPECIFICATION delicate parts of the motor-lock 4 are arranged inside the protective case of the **lock** compartment 13, which consists of the box 37 of the lock compartment 13, a cover...

...to interact with this groove 51 in the linear inward and outward movements of the **spring** bolt 41. One or more **springs** 53, 54 are arranged inside the lock compartment 13, which **springs** 53, 54 lie close to the **spring** bolt 41 and the carrier arm 50 under tension, the **springs** 53, 54 being provided to hold the **spring** bolt 41 normally in a position partly projected outside the lock compartment 13, until the handle or **knob** 49 is used. The **spring** bolt 41 ensures that the door panel 9 and thereby the latch bolt 14 end...

...sensor 31 and magnet 30 are fitted in the lock compartment 13 and on the **spring** bolt 41 for detecting the position of the **spring** bolt 41, i.e. whether it is in its projected or retracted position, which positions...

...55 for interaction with the electric motor 47 for said retraction and extension of the **latch** bolt 14. The operating device 55 comprises an oblong, linearly movable carrier 56, which has...

...bearing on the cog rail 57 for said retraction and extension of the linearly movable **latch** bolt 14. The carrier 56 also comprises a cog segment 61 and two **hooks** 62, 63 arranged on opposing sides of the recess end 58 of the carrier 56, where the two **hooks** 62, 63, which are arranged at a set distance from one another, are turned towards...

...peg 64 raised from the follower 44, turning of the cylinder follower 44, via its **knob** or via a traditional locking cylinder by means of a main key, offering an opportunity...

...the cog rail 57. The cog rail 57 is sunk here in relation to the **sliding** surface 65 disposed on the same side.  
An oblong blocking arm 66 is arranged rotatably...

22/5,K/8 (Item 8 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
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01264491

**Latch with sensor providing visual indication of the latch position**  
**Schliessvorrichtung mit optischer Darstellung der Schliesslage der Vorrichtung**  
**Dispositif de fermeture avec indication visuelle de la position de fermeture du dispositif**

PATENT ASSIGNEE:

Hartwell Corporation, (242303), 900 South Richfield Road, Placentia, CA 92870, (US), (Proprietor designated states: all)

INVENTOR:

Dessenberger, Arthur W., Jr., 21512 Indian Wells, Tehachapi, CA 93561, (US)

LEGAL REPRESENTATIVE:

Winter, Brandl, Furniss, Hubner, Ross, Kaiser, Polte, Partnerschaft (100056), Patent- und Rechtsanwaltskanzlei Bavariaring 10, 80336 Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 1091059 A2 010411 (Basic)  
EP 1091059 A3 030102  
EP 1091059 B1 050119

APPLICATION (CC, No, Date): EP 2000120411 000918;

PRIORITY (CC, No, Date): US 412296 991005

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU; MC; NL; PT; SE

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS (V7): ~~E05B-041/00~~ ; ~~E05C-019/14~~ ; B64D-029/06

CITED PATENTS (EP B): US 3194595 A; US 3259412 A; US 4538843 A; US 4759574 A

ABSTRACT EP 1091059 A2

Disclosed is a latch (20) for releasably engaging a keeper (40) to secure two members, such as, aircraft cowlings (24,26), to one another. The latch (20) includes a handle (50) moveable between closed and open positions and a hook (46) pivotally connected to the handle for engagement with the keeper (40). When the handle (50) is in the closed position, the hook (46) engages the keeper (40) to secure the members. When the handle (50) is in the open position, the hook (46) is disengaged

from the keeper (40) and the members are no longer secured. The latch (20) includes a sensor (60) pivotally mounted to the handle (50). The sensor provides a visual indication, via the position of the handle (50), whether the hook (46) has engaged the keeper (40). If the hook (46) does not engage the keeper (40), the sensor (60) prevents the handle from closing, providing a visual indication that the latch (20) has not closed.

ABSTRACT WORD COUNT: 161

NOTE:

Figure number on first page: 2

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 010411 A2 Published application without search report  
 Search Report: 030102 A3 Separate publication of the search report  
 Examination: 030813 A2 Date of request for examination: 20030611  
 Examination: 031112 A2 Date of dispatch of the first examination report: 20030929  
 Grant: 050119 B1 Granted patent  
 Lapse: 051116 B1 Date of lapse of European Patent in a contracting state (Country, date): FI 20050119,  
 Lapse: 051130 B1 Date of lapse of European Patent in a contracting state (Country, date): FI 20050119, SE 20050419,  
 Lapse: 051221 B1 Date of lapse of European Patent in a contracting state (Country, date): FI 20050119, SE 20050419, AT 20050119, BE 20050119,  
 Change: 060111 B1 Title of invention (German) changed: 20060111  
 Change: 060111 B1 Title of invention (English) changed: 20060111  
 Change: 060111 B1 Title of invention (French) changed: 20060111  
 Change: 060322 B1 Title of invention (German) changed: 20060322  
 Change: 060322 B1 Title of invention (English) changed: 20060322  
 Change: 060322 B1 Title of invention (French) changed: 20060322  
 Change: 060405 B1 Title of invention (German) changed: 20060405  
 Change: 060405 B1 Title of invention (English) changed: 20060405  
 Change: 060405 B1 Title of invention (French) changed: 20060405  
 Change: 060503 B1 Title of invention (German) changed: 20060503  
 Change: 060503 B1 Title of invention (English) changed: 20060503  
 Change: 060503 B1 Title of invention (French) changed: 20060503  
 Change: 060531 B1 Title of invention (German) changed: 20060531  
 Change: 060531 B1 Title of invention (English) changed: 20060531  
 Change: 060531 B1 Title of invention (French) changed: 20060531

LANGUAGE (Publication, Procedural, Application): English; English; English  
 FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200115	890
CLAIMS B	(English)	200503	890
CLAIMS B	(German)	200503	950
CLAIMS B	(French)	200503	991
SPEC A	(English)	200115	4504
SPEC B	(English)	200503	4516
Total word count - document A			5395
Total word count - document B			7347
Total word count - documents A + B			12742

INTERNATIONAL PATENT CLASS (V7): ~~E05B-041/00~~ ...

... ~~E05C-019/14~~

...SPECIFICATION has formed therethrough an aligned flange hole 156. As shown in FIG. 2, the trigger lock has a locked position in which the trigger lock engages the anchor pin 108 of...

...hooked ends 142 of the trigger lock 58 engage the anchor pin 108 of the

**hook** such that the handle closes. In the closed position, as best seen in FIG. 2...

...properly closed and the cowlings are secure.

FIG. 4d is a sectional view of the **latch** 20 disengaged from the keeper 40 and illustrates the sensor 60 in the blocking position. If the handle 50 is pivoted to its closed position, and the **hook** 46 and the sensor do not engage the bar 42 of the keeper, the sensor...

...trigger lock prevents the hooked ends 142 from engaging the anchor pin 108 of the **hook**. The action of the spring 134 then forces the handle to rotate clockwise to the...

...with the exterior surface 53 of the first cowling providing a visual indication that the **latch** is not properly closed and the cowlings are not secure.

The sensor ensures that when...

...is properly engaged, and that the cowlings are secure. On the other hand, when the **latch** does not close properly, the handle pivots away from the exterior surface of the cowling providing a visual indication that the **latch** is not properly closed. Accordingly, the **latch** provides a visual indication, via the position of the handle, of the state of engagement of the **hook** and the keeper. Another advantage of the **latch** is that the sensor is pivotally mounted to the handle, instead of the **hook**, so that the sensor has no effect on the flight load capabilities of **latch**. Thus, the **latch** can accommodate larger flight loads. Also, the sensor can be added to currently existing **latches** by simply mounting the sensor to the handle. Additionally, the sensor is relatively light in...

...in the art will recognize that other modifications and variations can be made in the **latch** with sensor of the invention and in the construction and operation of the **latch** without departing from the scope or spirit of this invention. For example, it should be...

...SPECIFICATION has formed therethrough an aligned flange hole 156. As shown in FIG. 2, the trigger **lock** has a locked position in which the trigger lock engages the anchor pin 108 of...

...hooked ends 142 of the trigger lock 58 engage the anchor pin 108 of the **hook** such that the handle closes. In the closed position, as best seen in FIG. 2...

...properly closed and the cowlings are secure.

FIG. 4d is a sectional view of the **latch** 20 disengaged from the keeper 40 and illustrates the sensor 60 in the blocking position. If the handle 50 is pivoted to its closed position, and the **hook** 46 and the sensor do not engage the bar 42 of the keeper, the sensor...

...trigger lock prevents the hooked ends 142 from engaging the anchor pin 108 of the **hook**. The action of the spring 134 then forces the handle to rotate clockwise to the...

...with the exterior surface 53 of the first cowling providing a visual indication that the **latch** is not properly closed and the cowlings are not secure.

The sensor ensures that when...

...is properly engaged, and that the cowlings are secure. On the other hand, when the **latch** does not close properly, the handle pivots away from the exterior surface of the cowling providing a visual indication that the **latch** is not properly closed. Accordingly, the **latch** provides a visual indication, via the position of the handle, of the state of engagement of the **hook** and the keeper. Another advantage of the **latch** is that the sensor is pivotally mounted to the handle,

instead of the **hook** , so that the sensor has no effect on the flight load capabilities of **latch** . Thus, the **latch** can accommodate larger flight loads. Also, the sensor can be added to currently existing **latches** by simply mounting the sensor to the handle. Additionally, the sensor is relatively light in...

...in the art will recognize that other modifications and variations can be made in the **latch** with sensor of the invention and in the construction and operation of the **latch** without departing from the scope of this invention as claimed. For example, it should be...

**22/5,K/9** (Item 9 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
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01258986

**Closing assembly for suitcases, bags and similar**  
**Verschluss fur Koffer, Taschen und anliche Gegenstande**  
**Fermeoir pour valises sacs et objets similaires**

PATENT ASSIGNEE:

VALIGERIA RONCATO S.p.A., (1810610), Via Pioga 91, 35011 Campodarsego, (IT), (Proprietor designated states: all)

INVENTOR:

Roncato, Enrico, Via Pioga, 160, 35011 Campodarsego, Padova, (IT)

LEGAL REPRESENTATIVE:

Perani, Aurelio et al (42469), Perani Mezzanotte & Partners Piazza San Babila 5, 20122 Milano, (IT)

PATENT (CC, No, Kind, Date): EP 1085149 A1 010321 (Basic)  
EP 1085149 B1 021204

APPLICATION (CC, No, Date): EP 99830574 990913;

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU; MC; NL; PT; SE

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS (V7): **E05B-065/52** ; A45C-013/10

CITED PATENTS (EP B): DE 2010085 A; DE 805053 C; DE 9308167 U; US 2294120 A ; US 5111918 A

ABSTRACT EP 1085149 A1

A closing assembly for bags, suitcases and similar, comprising at least one pair of catch means (14, 16) associated with a first half-shell (2) of a bag, suitcase or similar (3) and capable of providing a releasable engagement with a corresponding pair of counter-catch means (39) associated with a second half-shell (37) of the bag, suitcase or similar (3) for closing it. There are provided jointly activatable inhibition means (20, 22, 23, 32) for inhibiting the opening of the bag, suitcase or similar, operationally connected to the said at least one pair of catch means (14, 16) and jointly activatable to block the release of the engagement with the said pair of counter-catch means.

ABSTRACT WORD COUNT: 115

NOTE:

Figure number on first page: 1

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application:	010321 A1	Published application with search report
Examination:	010321 A1	Date of request for examination: 20001117
Examination:	010613 A1	Date of dispatch of the first examination report: 20010426
Change:	020904 A1	Legal representative(s) changed 20020716
Grant:	021204 B1	Granted patent
Lapse:	030702 B1	Date of lapse of European Patent in a contracting state (Country, date): SE 20030304,
Lapse:	030716 B1	Date of lapse of European Patent in a

contracting state (Country, date): PT 20030305, SE 20030304,

Lapse: 030723 B1 Date of lapse of European Patent in a contracting state (Country, date): NL 20021204, PT 20030305, SE 20030304,

Lapse: 030730 B1 Date of lapse of European Patent in a contracting state (Country, date): GR 20021204, NL 20021204, PT 20030305, SE 20030304,

Lapse: 030910 B1 Date of lapse of European Patent in a contracting state (Country, date): AT 20021204, GR 20021204, NL 20021204, PT 20030305, SE 20030304,

Lapse: 030924 B1 Date of lapse of European Patent in a contracting state (Country, date): AT 20021204, CH 20021204, LI 20021204, GR 20021204, NL 20021204, PT 20030305, SE 20030304,

Lapse: 031022 B1 Date of lapse of European Patent in a contracting state (Country, date): AT 20021204, CH 20021204, LI 20021204, FI 20021204, GR 20021204, NL 20021204, PT 20030305, SE 20030304,

Oppn None: 031126 B1 No opposition filed: 20030905

Lapse: 040107 B1 Date of lapse of European Patent in a contracting state (Country, date): AT 20021204, CH 20021204, LI 20021204, DK 20030304, FI 20021204, GR 20021204, NL 20021204, PT 20030305, SE 20030304,

LANGUAGE (Publication,Procedural,Application): English; English; Italian  
 FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200112	1114
CLAIMS B	(English)	200249	1064
CLAIMS B	(German)	200249	937
CLAIMS B	(French)	200249	1121
SPEC A	(English)	200112	2901
SPEC B	(English)	200249	3194
Total word count - document A			4016
Total word count - document B			6316
Total word count - documents A + B			10332

INTERNATIONAL PATENT CLASS (V7): E05B-065/52 ...

...SPECIFICATION is brought into a position of engagement with the counter-catch by acting on the **swinging** element after the lid has been closed on to the base of the suitcase, and...

...urging them elastically into the closed position. Both of the two levers present a push- **button** for pushing them against the elastic preload of the springs into the open position, wherein...

...two locking bars of a key operated safety lock.

The patent US 2294120 describes a **latching** means for luggage comprising a catch plate with two catch **hooks** connected to one half-shell of the bag and a **latch** plate with two **latch hooks** connected to the other half-shell of the bag, wherein the **latch** plate is movable perpendicularly to the opening direction of the half-shells of the luggage between an open and closed position to disengage and engage with its **latch hooks** the catch **hooks** of the catch plate for opening and closing the bag. A spring is acting on the **latch** plate, holding it elastically in the closed position. A push-piece is formed on one side of the **latch** plate, which must be pressed against the elastic preload of the spring in order to move the **latch** plate into the open position,



wherein this pushing of the levers can be inhibited by...  
...The German utility model DE U 9308167 describes a combination lock for suitcases, wherein two **hooks** are immovable connected two one half-shell of a suitcase and engagable with two bolt...  
...are pushed by means of a spring against a switch operated central cam, wherein the **springs** hold the sliding plates in the closed position. In order to bring the sliding plates...  
...cams, directly rotated by a combination lock, are disposed within the sliding course of these **sliding** plates and able to block its movement into the opening position.  
In view of the...

**22/5,K/10 (Item 10 from file: 348)**  
DIALOG(R)File 348:EUROPEAN PATENTS  
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01147916

**Closure**

**Verschluss**

**Fermeture**

PATENT ASSIGNEE:

Karl Simon GmbH & Co. KG, (1983813), Sulgener Strasse 21/23, 78733 Aichhalden, (DE), (Proprietor designated states: all)

INVENTOR:

King, Gerlinde, Schramberger Str. 21, 78730 Lauterbach, (DE)

LEGAL REPRESENTATIVE:

Fleck, Hermann-Josef, Dr.-Ing. (75874), Klingengasse 2, 71665 Vaihingen/Enz, (DE)

PATENT (CC, No, Kind, Date): EP 1001120 A1 000517 (Basic)  
EP 1001120 B1 050427  
EP 1001120 B8 050928

APPLICATION (CC, No, Date): EP 98121322 981109;

DESIGNATED STATES: BE; DE; FR; GB; IT; NL

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS (V7): **E05B-065/46** ; **E05C-003/16**

CITED PATENTS (EP B): EP 154605 A; BE 527160 A; DE 3022556 A; DE 196589 C; GB 2097054 A; US 3357762 A

ABSTRACT EP 1001120 A1 (Translated)

Closure for locking door, drawer or other flap has locking mechanism with bolt in bearing housing which has compensating element to adapt to different material thicknesses of drawer etc

The closure has a locking mechanism with a bolt in a bearing housing (50) and also a compensating element (45) for adapting the closure to different material thicknesses used for the drawer or door.

The bearing housing is attached to the outside of the drawer or door etc and holds an operating element (40) for the bolt. The operating element can have the compensating element such as in the form of a slide guide containing a movable fixing attachment (35) for the bolt.

TRANSLATED ABSTRACT WORD COUNT: 112

ABSTRACT EP 1001120 A1

Die Erfindung betrifft einen Verschluss zum Verriegeln eines Korpuselementes (10), beispielsweise einer Klappe, Tur, Schublade oder dgl. an einem Korpus, mit einer Verriegelungsmechanik, bei der in einem Lagergehäuse (50) ein Riegel (30) zumindest teilweise aufgenommen ist, wobei der Riegel (30) in der Schliesstellung des Korpuselementes (10) mit einem Rastelement (15) verriegelt. Ein solcher Verschluss last sich dann an unterschiedliche Korpuselemente (10) mit verschiedenen Materialstärken ohne zusätzlichen Umbauaufwand anbringen, wenn vorgesehen ist, das die Verriegelungsmechanik im Lagergehäuse (50) ein Ausgleichselement (45)

aufweist, mittels derer eine Anpassung des Verschlusses auf verschiedene Materialstärken des Korpuselementes (10) möglich ist.

ABSTRACT WORD COUNT: 96

NOTE:

Figure number on first page: 1

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 000517 A1 Published application with search report  
Examination: 010117 A1 Date of request for examination: 20001117  
Examination: 031105 A1 Date of dispatch of the first examination  
report: 20030917  
Grant: 050427 B1 Granted patent  
Change: 050727 B1 Inventor information changed: 20050607  
Change: 050810 B1 Inventor information changed: 20050618  
Correction: 050928 B8 Title page reprint (W1) of EP Specification,  
Affected parts: Bibliography, INID Code(s) - 72  
Change: 060329 B1 Title of invention (German) changed: 20060329  
Change: 060329 B1 Title of invention (English) changed: 20060329  
Change: 060329 B1 Title of invention (French) changed: 20060329  
Change: 060419 B1 Title of invention (German) changed: 20060419  
Change: 060419 B1 Title of invention (English) changed: 20060419  
Change: 060419 B1 Title of invention (French) changed: 20060419  
Change: 060531 B1 Title of invention (German) changed: 20060531  
Change: 060531 B1 Title of invention (English) changed: 20060531  
Change: 060531 B1 Title of invention (French) changed: 20060531

LANGUAGE (Publication, Procedural, Application): German; German; German

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(German)	200020	681
CLAIMS B	(English)	200539	846
CLAIMS B	(German)	200539	693
CLAIMS B	(French)	200539	890
SPEC A	(German)	200020	2406
SPEC B	(German)	200539	2482
Total word count - document A			3088
Total word count - document B			4911
Total word count - documents A + B			7999

INTERNATIONAL PATENT CLASS (V7): E05B-065/46 ...

... E05C-003/16

...CLAIMS 10).

6. Closure according to one of Claims 3 to 5, characterized in that the **latch** (30) can be **latched** into the mounting (23) of the partial housing (20), in that the partial housing (20...

...one of Claims 1 to 6, characterized in that as actuating member (40) a push- **button** is **latched** into a cutout of the bearing housing (50), in that the bearing housing (50) has...

...58) onto which a spiral spring (43) is pushed, the spiral spring supporting the push- **button** under spring prestress in the **latching** position of the **latch** (30).

8. Closure according to one of Claims 1 to 7, characterized in that the **latch** (30) has a **latching hook** (31) which, in the locked state of the closure, reaches in an undercut manner behind the **latching** element (15), as seen in the open direction of the body element (10).

9. Closure according to Claim 8, characterized in that the **latch** (30) has two lever arms (32, 34) on both sides of the mounting (23), in which it can be pivoted, in that one lever arm (32) bears the **latching hook** (31) and the other lever arm (34) is coupled to the actuating member (40), and in that the **latch** (30) is supported on one of its lever arms (32, 34) by means of a...

...the actuating member (40) has, as compensating element (45), a sliding surface on which the **latch** (30) bears in the region of the free end of the associated lever arm (34...

...first constructional unit, and the bearing housing (50) with the actuating member (40), which is **fastened** thereto, forms a second subassembly, in that the first subassembly can be indirectly or directly...

**22/5,K/11 (Item 11 from file: 348)**  
DIALOG(R)File 348:EUROPEAN PATENTS  
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00948952

**Dogging device for a latch assembly**

**Blockiervorrichtung fur Verriegelungseinrichtung**

**Element de blocage pour dispositif de verrouillage**

PATENT ASSIGNEE:

VON DUPRIN, INC., (1617710), 2720 Tobey Drive, Indianapolis, IN 46219,  
(US), (applicant designated states: DE;FR;GB;IT)

INVENTOR:

Austin, Marlin D., 2126 Allison Drive, Speedway, Indiana 46224, (US)  
Cors, Richard B., Jr., 5145 W. 300 Street, New Palestine, Indiana 46163,  
(US)

Rohrbaugh, Stephen M., 2625 Marina Drive, Indianapolis, Indiana 46240,  
(US)

LEGAL REPRESENTATIVE:

Feakins, Graham Allan et al (48462), RAWORTH, MOSS & COOK RAWORTH HOUSE  
36 Sydenham Road, Croydon, Surrey CRO 2EF, (GB)

PATENT (CC, No, Kind, Date): EP 860568 A1 980826 (Basic)

APPLICATION (CC, No, Date): EP 98301068 980213;

PRIORITY (CC, No, Date): US 38301 P 970221

DESIGNATED STATES: DE; FR; GB; IT

INTERNATIONAL PATENT CLASS (V7): **E05B-063/18**

ABSTRACT EP 860568 A1

A dogging device (10) for securing a panic exit and actuation device in an unlatched condition uses a U-shaped spring clip (50) to secure a base plate (80), a dogging adapter (70) and a dogging hook (20) together. The base plate, dogging adapter and dogging hook are rotated about a common axis by an operator (30, 60), which can either be a hexagonal shaft (30) or a cylinder adapter (60) operated by a keyed lock, from a disengaged position to an engaged position where the dogging hook engages a control rod of the exit device thereby holding, or dogging, the exit device in an unlatched condition. An over-centre spring (40) is used to bias the dogging hook into either the engaged or the disengaged position.

ABSTRACT WORD COUNT: 126

LEGAL STATUS (Type, Pub Date, Kind, Text):

Withdrawal: 000614 A1 Date of withdrawal of application: 20000425

Examination: 20000119 A1 Date of dispatch of the first examination  
report: 19991203

Application: 980826 A1 Published application (A1with Search Report  
;A2without Search Report)

Examination: 990421 A1 Date of filing of request for examination:  
990218

Change: 990512 A1 Designated Contracting States (change)

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	9835	508
SPEC A	(English)	9835	1819

Total word count - document A 2327  
Total word count - document B 0  
Total word count - documents A + B 2327

INTERNATIONAL PATENT CLASS (V7): **E05B-063/18**

...SPECIFICATION actuator assemblies.

The dogging function of an exit device on a door secures an active **bar** of the exit device in a depressed position with a device latching bolt retracted. Activating...

...a hole adjacent to the bar. This action will hold the depressed bar and retracted **latch** until the dogging function is deactivated. Another method to activate the dogging device is cylinder...

...from the inside. A dogged device now permits heavy traffic to egress from the previously **locked** exterior without the actuation of levers, **knobs** or key cylinders. Dogging devices in high traffic applications will reduce the potential for wear...

...dogging devices require disassembly to convert the dogging device from a hex shaft to a **locking** cylinder. It is possible to assemble the dogging device incorrectly, which can render the dogging device inoperable.

According to the present invention, there is provided a dogging device for a **latch** assembly having a translating **latching** and unlatching control rod, comprising a dogging **hook** having a **hook** portion thereon, the dogging **hook** being pivotable about an axis between a first position engaging a **latching** and unlatching control rod and a second position not engaging the **latching** and unlatching control rod, an operator co-axial with the dogging **hook** axis and engaging the dogging **hook**, and a **spring** biasing the dogging **hook** in either of the first or second positions; characterised in that a clip means is...

...2 with the cylinder adapter shown in Fig. 6 in place of a hex operator **shaft**.

Referring to the drawings, a dogging device 10 is shown for use with a latch...

22/5,K/12 (Item 12 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
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00921234

Handle with simplified safety actuation for doors of trucks, trailers or the like

Handhabe mit vereinfachter Sicherheitsbetätigung für Lastwagenture, Anhangerture oder ähnliches

Poignée a commande de securite simplifiée pour une porte de camion, de remorque ou similaire

PATENT ASSIGNEE:

Pastore & Lombardi S.r.l., (2414320), Via Don Minzoni, 3, 40057 Cadriano di Granarolo Emilia (Bologna), (IT), (Proprietor designated states: all)

INVENTOR:

Hilbe, Riccardo, Via Begatto, 1, 40125 Bologna, (IT)  
Bortolotti, Lando, Via Novaro, 27, 40141 Bologna, (IT)

LEGAL REPRESENTATIVE:

Modiano, Guido, Dr.-Ing. et al (40782), Modiano & Associati SpA Via Meravigli, 16, 20123 Milano, (IT)

PATENT (CC, No, Kind, Date): EP 839977 A2 980506 (Basic)  
EP 839977 A3 990512  
EP 839977 B1 020904

APPLICATION (CC, No, Date): EP 97118915 971030;

PRIORITY (CC, No, Date): IT 96B0150 961104  
DESIGNATED STATES: AT; BE; CH; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU;  
MC; NL; PT; SE  
INTERNATIONAL PATENT CLASS (V7): **E05B-065/16** ; **E05C-009/08**  
CITED PATENTS (EP B): DE 2213790 A; GB 2084643 A; US 4508377 A

ABSTRACT EP 839977 A2

A handle with simplified safety actuation for doors of trucks, trailers or the like, comprising: a first box-like element (2), which is provided with means for fixing to the door and is provided with an engagement tooth (5) rigidly coupled to the bottom (3); a second box-like element (6), which is articulated along one side of the first element (2) and has means for the articulation of two secondary arms (14a;14b) of a U-shaped handle (14) about an axis which is parallel to the rod; a case (16) which is rigidly coupled to the second box-like element (6) and in which a spring latch (18) is fitted so that it can slide in contrast with elastic means (17a,17b), the spring latch being suitable to engage the tooth (5); at least one inclined lug (19a,19b), which is rigidly coupled to a secondary arm (14a;14b) of the handle and is suitable to actuate the spring latch (18) for release; the bottom (3) of the first box-like element (2) has a through hole (24), through which it is possible to insert a pin for the release of the spring latch (18) regardless of the position of the handle (14).

ABSTRACT WORD COUNT: 197

NOTE:

Figure number on first page: 2

LEGAL STATUS (Type, Pub Date, Kind, Text):

Examination: 010509 A2 Date of dispatch of the first examination  
report: 20010327  
Application: 980506 A2 Published application (A1with Search Report  
;A2without Search Report)  
Oppn None: 030827 B1 No opposition filed: 20030605  
Grant: 020904 B1 Granted patent  
Search Report: 990512 A3 Separate publication of the European or  
International search report  
Examination: 991229 A2 Date of request for examination: 19991027

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	199819	238
CLAIMS B	(English)	200236	271
CLAIMS B	(German)	200236	288
CLAIMS B	(French)	200236	321
SPEC A	(English)	199819	1166
SPEC B	(English)	200236	1273
Total word count - document A			1404
Total word count - document B			2153
Total word count - documents A + B			3557

INTERNATIONAL PATENT CLASS (V7): **E05B-065/16** ...

... **E05C-009/08**

...SPECIFICATION of trucks, trailers or the like.

Handles for actuating doors conventionally turn long rotating vertical **rods** with which closure pawls are associated: these handles are turned manually from a position for engaging an internal safety **hook** to a first rotation step for releasing the pawls of the **rods** , and are provided with key-operated closures.

A drawback of these handles is that they...

...the actuation of conventional handles entails simultaneously gripping the handle and acting on a release **button** .

For instance, GB 2084643A discloses a handle of an industrial refrigerator which may be opened also from the inside. A **fastening control lever** may be rotated either by the outside handle fixed to it, or by a sliding push-**rod** projecting into the inside of the refrigerator and, at the same time, operating a control **lever** through a **latch lever** hinged thereto.

DE 2,213,790 discloses a spinning **rod** closure system having **spring** means. When the handle of the closure system is unlocked, it is possible to push the handle to let the **rod** spin and let the door open.

The aim of the present invention is to obviate...

...these objects and others which will become apparent hereinafter are achieved by the present handle- **lock** comprising a U-shaped handle with simplified safety actuation for doors of trucks, trailers or the like provided with a door closure **rod**, comprising: a first box-like element, comprising a bottom, which is provided with means for...

...which is articulated along one side of the first element located at said door closure **rod** and has means for the articulation of two secondary arms of said U-shaped handle...

...a similar through hole of the door, through which a pin is insertable for the **release** of said spring latch regardless of the position of the handle.

Further characteristics and advantages...

**22/5,K/13 (Item 13 from file: 348)**  
DIALOG(R)File 348:EUROPEAN PATENTS  
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00596219

**Latching apparatus for double doors**  
**Verriegelungsvorrichtung für Doppeltüren**  
**Dispositif de verrouillage pour portes à deux battants**

PATENT ASSIGNEE:

NEWELL OPERATING COMPANY, (1048400), 29 East Stephenson Street, Freeport Illinois 61032, (US), (applicant designated states: BE;DK;FR;GB;LU;NL;SE)

ANDERSEN CORPORATION, (1148810), 100 Fourth Avenue North, Bayport, MN 55003, (US), (applicant designated states: BE;DK;FR;GB;LU;NL;SE)

INVENTOR:

O'Toole, James F., 1009 North Court St., Rockford, Illinois, (US)  
Martz, William M., 912 Brae Burn Lane, Rockford, Illinois, (US)  
Bruchu, Todd W., 3150 Klondike Ave., Lake Elmo, Minnesota, (US)  
Beske, Scott R., 14115 North 30th St., Stillwater, Minnesota, (US)

LEGAL REPRESENTATIVE:

Meyers, Ernest (19205), Office de Brevets Meyers & Van Malderen 261 route d'Arlon B.P. 111, 8002 Strassen, (LU)

PATENT (CC, No, Kind, Date): EP 606605 A1 940720 (Basic)  
EP 606605 B1 970423

APPLICATION (CC, No, Date): EP 93120244 931216;

PRIORITY (CC, No, Date): US 2956 930111

DESIGNATED STATES: BE; DK; FR; GB; LU; NL; SE

INTERNATIONAL PATENT CLASS (V7): **E05C-007/06** ;

ABSTRACT EP 606605 A1

Latching apparatus for first and second adjacent swinging doors (15, 16) prevents locking of the first door (15) unless the second door (16) is latched and prevents unlatching of the second door (16) unless the first door (15) is open. (see image in original document)

ABSTRACT WORD COUNT: 47

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 940720 A1 Published application (A1with Search Report  
 ;A2without Search Report)  
 Examination: 950301 A1 Date of filing of request for examination:  
 941230  
 Change: 950705 A1 Representative (change)  
 \*Assignee: 950705 A1 Applicant (transfer of rights) (change): NEWELL  
 OPERATING COMPANY (1048400) 29 East Stephenson  
 Street Freeport Illinois 61032 (US) (applicant  
 designated states: BE;DK;FR;GB;LU;NL;SE),  
 ANDERSEN CORPORATION (1148810) 100 Fourth  
 Avenue North Bayport, MN 55003 (US) (applicant  
 designated states: BE;DK;FR;GB;LU;NL;SE)  
 \*Assignee: 950705 A1 Previous applicant in case of transfer of  
 rights (change): AMEROCK CORPORATION (1052320)  
 4000 Auburn Street P.O. Box 7018 Rockford  
 Illinois 61125-7018 (US) (applicant designated  
 states: BE;DK;FR;GB;LU;NL;SE)  
 Examination: 960313 A1 Date of despatch of first examination report:  
 960129  
 Grant: 970423 B1 Granted patent  
 Oppn None: 980415 B1 No opposition filed  
 LANGUAGE (Publication,Procedural,Application): English; English; English  
 FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPABF2	977
CLAIMS B	(English)	EPAB97	983
CLAIMS B	(German)	EPAB97	956
CLAIMS B	(French)	EPAB97	1062
SPEC A	(English)	EPABF2	4753
SPEC B	(English)	EPAB97	4830
Total word count - document A			5731
Total word count - document B			7831
Total word count - documents A + B			13562

INTERNATIONAL PATENT CLASS (V7): **E05C-007/06**

...SPECIFICATION of the active door 15.

Associated with the actuating unit 21 of the active door **latching** and locking mechanism 20 is a conventional spring-biased latching element 31 (Fig. 2). When...

...31, the hooks 33 are pivoted to their unlatched positions by the linkages 35.

The **latching** and locking mechanism 20 of the active door 15 is completed by a deadbolt 36...actuating unit 21 prevents the deadbolt from being thrown to its locked position unless the **hook latches** 33 have first been moved to their **latched** positions.

The passive door 16 includes a **latching** mechanism designated generally by the reference numeral 40, the mechanism 40 having an actuating unit 41 received in the mortised pocket 25 of the passive door. The **latching** mechanism 40 includes upper and lower **latch** elements 41a and 41b (Fig. 2) adapted to be selectively projected into and retracted from...

...in the header 43 and the sill 44 of the door frame 17. When the **latch** elements 41a and 41b are located in **latched** positions in the sockets 42 as shown in Fig. 2, they **latch** the passive door 16 to the header 43 and the sill 44 and thereby prevent opening of the door. Fig. 4 shows the lower **latch** element 41 retracted upwardly from the socket 42 and located in an unlatched position so as to permit opening of the passive door, the upper **latch** element 41a being **latched** and unlatched simultaneously with the lower **latch** element 41b.

In order to shift the upper and lower **latch** elements 41a and 41b between their latched and unlatched positions, upper and lower actuating links...

...with the receiver housing 34 of the lower hook latch 33 and adapted to be **moved** between active and inactive positions by the lower actuating link 46 of the passive door...

...SPECIFICATION of the active door 15.

Associated with the actuating unit 21 of the active door **latching** and locking mechanism 20 is a conventional spring-biased latching element 31 (Fig. 2). When...

...31, the hooks 33 are pivoted to their unlatched positions by the linkages 35.

The **latching** and locking mechanism 20 of the active door 15 is completed by a deadbolt 36...actuating unit 21 prevents the deadbolt from being thrown to its locked position unless the **hook latches** 33 have first been moved to their **latched** positions.

The passive door 16 includes a **latching** mechanism designated generally by the reference numeral 40, the mechanism 40 having an actuating unit 41 received in the mortised pocket 25 of the passive door. The **latching** mechanism 40 includes upper and lower **latch** elements 41a and 41b (Fig. 2) adapted to be selectively projected into and retracted from...

...in the header 43 and the sill 44 of the door frame 17. When the **latch** elements 41a and 41b are located in **latched** positions in the sockets 42 as shown in Fig. 2, they **latch** the passive door 16 to the header 43 and the sill 44 and thereby prevent opening of the door. Fig. 4 shows the lower **latch** element 41 retracted upwardly from the socket 42 and located in an unlatched position so as to permit opening of the passive door, the upper **latch** element 41a being **latched** and unlatched simultaneously with the lower **latch** element 41b.

In order to shift the upper and lower **latch** elements 41a and 41b between their latched and unlatched positions, upper and lower actuating links...

...with the receiver housing 34 of the lower hook latch 33 and adapted to be **moved** between active and inactive positions by the lower actuating link 46 of the passive door...

**22/5,K/14 (Item 14 from file: 348)**

DIALOG(R)File 348:EUROPEAN PATENTS

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00565747

**Vehicle sun roof fastening device**

**Befestigungsvorrichtung fur Fahrzeugschiebedach**

**Dispositif de fixation d'un toit ouvrant pour vehicules**

PATENT ASSIGNEE:

ROLTRA MORSE S.p.A., (1633230), Via Albenga, 9, I-10090 Cascine Vica - Rivoli, (IT), (applicant designated states: DE;ES;FR;GB;IT;NL;PT;SE)

INVENTOR:

Filippi, Aldo, Via San Quintino, 5, I-10100 Torino, (IT)

LEGAL REPRESENTATIVE:

Jorio, Paolo et al (44842), Studio Torta, Via Viotti, 9, 10121 Torino, (IT)

PATENT (CC, No, Kind, Date): EP 566061 A2 931020 (Basic)  
EP 566061 A3 931229  
EP 566061 B1 961009

APPLICATION (CC, No, Date): EP 93105972 930413;

PRIORITY (CC, No, Date): IT 92TO337 920414

DESIGNATED STATES: DE; ES; FR; GB; IT; NL; PT; SE

INTERNATIONAL PATENT CLASS (V7): B60J-007/185; **E05B-065/12** ; F16H-021/44;

CITED PATENTS (EP A): US 5058939 A; US 4572572 A; DE 1580138 A; DE 4111646



A

ABSTRACT EP 566061 A2

A vehicle sun roof fastening device (1), particularly for convertible vehicles, wherein a lever (10) is fitted with a hinged latch element (38) designed to mate with a fixed connecting element (47), and is hinged to a support (3) so as to oscillate in relation to the support (3) and by virtue of a crank mechanism (12) interposed between the lever (10) and the support (3) and operated by a linear actuator (20), the output rod (24, 25) of which is connected to one end of a crank (27a) having the other end angularly integral with a crank (14) on the crank mechanism (12). (see image in original document)

ABSTRACT WORD COUNT: 111

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 931020 A2 Published application (Alwith Search Report  
;A2without Search Report)  
Search Report: 931229 A3 Separate publication of the European or  
International search report  
Examination: 940817 A2 Date of filing of request for examination:  
940609  
Examination: 950510 A2 Date of despatch of first examination report:  
950327  
Grant: 961009 B1 Granted patent  
Oppn None: 971001 B1 No opposition filed  
Lapse: 971210 B1 Date of lapse of the European patent in a  
Contracting State: PT 970109

LANGUAGE (Publication,Procedural,Application): English; English; Italian

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPABF1	393
CLAIMS B	(English)	EPAB96	422
CLAIMS B	(German)	EPAB96	454
CLAIMS B	(French)	EPAB96	479
SPEC A	(English)	EPABF1	1504
SPEC B	(English)	EPAB96	1530
Total word count - document A			1897
Total word count - document B			2885
Total word count - documents A + B			4782

...INTERNATIONAL PATENT CLASS (V7): E05B-065/12

...SPECIFICATION that of holes 31 and 32 and which engages holes 31 and 32 in axially- **sliding** angularly-fixed manner. Key 33 also comprises a further externally-threaded portion 35 supporting a...  
...of portion 34 projecting outwards of the other wall 6.

Finally, device 1 comprises a **latch** element 38 in turn comprising a fork 39, the arms 40 of which are hinged to the free end of **lever** 10 by a pin 41 parallel to axes 13 and 16; and a **hook** 42 integral with a crosspiece on fork 39 and having its concavity facing a mating...

...S-shaped edge 48 on the side facing cam 46. System 45 also comprises a **spring** 49, preferably a double pin **spring**, interposed between **lever** 10 and fork 39 for holding edge 48 of tappet element 47 permanently contacting edge...

...described as of the Fig.4 condition, wherein roof 2 is in the closed position, **latch** element 38 is withdrawn and disengaged from mating element 43, and crank 14 and arms...

...anticlockwise in Fig.4, and so rotate crank 14 clockwise about axis 13, and move **lever** 10 and, consequently, **latch** element 38 from the withdrawn position to a forward operating position (Fig.5) wherein **hook** 42 positively engages element 43. As element 38 moves from the withdrawn

to the forward...

...16, and tappet element 47 rotates element 38 about pin 41 and in relation to **lever** 10, so as to position **hook** 42 beneath mating element 43.

At this point, further anticlockwise rotation (in Fig.5) of crank 27a by actuator 20 results in further clockwise rotation of **lever** 10 about axis 13, so as to move **hook** 42 towards bracket 3 and so perfectly close roof 2.

As shown in Fig.7, in the event of failure of electric motor 23, so that roof 2 cannot be **fastened** automatically, device 1 may also be operated manually by simply removing key 33, by torquing **knob** 36 on threaded portion 35 of key 33 so as to extract ring 37 from...

...SPECIFICATION that of holes 31 and 32 and which engages holes 31 and 32 in axially- **sliding** angularly-fixed manner. Key 33 also comprises a further externally-threaded portion 35 supporting a...

...of portion 34 projecting outwards of the other wall 6.

Finally, device 1 comprises a **latch** element 38 in turn comprising a fork 39, the arms 40 of which are hinged to the free end of **lever** 10 by a pin 41 parallel to axes 13 and 16; and a **hook** 42 integral with a crosspiece on fork 39 and having its concavity facing a mating...

...S-shaped edge 48 on the side facing cam 46. System 45 also comprises a **spring** 49, preferably a double pin **spring**, interposed between **lever** 10 and fork 39 for holding edge 48 of tappet element 47 permanently contacting edge...

...described as of the Fig.4 condition, wherein hood 2 is in the closed position, **latch** element 38 is withdrawn and disengaged from mating element 43, and crank 14 and arms...

...to rotate arms 27 anticlockwise in Fig. 4, and so rotate crank 14, and move **lever** 10 clockwise about axis 13 and, consequently, **latch** element 38 from the withdrawn position to a forward operating position (Fig.5) wherein **hook** 42 positively engages element 43. As element 38 moves from the withdrawn to the forward...

...16, and tappet element 47 rotates element 38 about pin 41 and in relation to **lever** 10, so as to position **hook** 42 beneath mating element 43.

At this point, further anticlockwise rotation (in Fig.5) of crank 27a by actuator 20 results in further clockwise rotation of **lever** 10 about axis 13, so as to move **hook** 42 towards bracket 3 and so perfectly close hood 2.

As shown in Fig.7, in the event of failure of electric motor 23, so that hood 2 cannot be **fastened** automatically, device 1 may also be operated manually by simply removing key 33, by torquing **knob** 36 on threaded portion 35 of key 33 so as to extract ring 37 from...

22/5,K/15 (Item 15 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
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00454305

**AN ELECTRICALLY AND MECHANICALLY ACTIVATABLE LOCK MECHANISM.**

**ELEKTRISCH UND MECHANISCH BETÄTIGBARER SCHLOSSMECHANISMUS.**

**MECANISME DE SERRURE ACTIVE ELECTRIQUEMENT ET MECANIQUEMENT.**

PATENT ASSIGNEE:

ASSA AB, (973280), Box 371, S-631 05 Eskilstuna, (SE), (applicant designated states: AT;BE;CH;DE;DK;FR;GB;LI;LU;NL)

INVENTOR:

WALLDEN, Lars, Gultbrunnsvagen 30, S-633 47 Eskilstuna, (SE)  
LEGAL REPRESENTATIVE:  
Wennborg, Gote et al (24451), Kransell & Wennborg AB Box 27834, S-115 93  
Stockholm, (SE)  
PATENT (CC, No, Kind, Date): EP 482117 A1 920429 (Basic)  
EP 482117 B1 940323  
WO 9100405 910110  
APPLICATION (CC, No, Date): EP 90917794 900615; WO 90SE402 900615  
PRIORITY (CC, No, Date): SE 892363 890629  
DESIGNATED STATES: AT; BE; CH; DE; DK; FR; GB; LI; LU; NL  
INTERNATIONAL PATENT CLASS (V7): **E05B-047/02** ; **E05B-065/02** ;  
CITED PATENTS (WO A): US 4126341 A; US 4685709 A  
NOTE:

No A-document published by EPO  
LEGAL STATUS (Type, Pub Date, Kind, Text):  
Application: 920429 A1 Published application (A1with Search Report  
;A2without Search Report)  
Examination: 920429 A1 Date of filing of request for examination:  
911220  
Examination: 930825 A1 Date of despatch of first examination report:  
930709  
Grant: 940323 B1 Granted patent  
Oppn None: 950315 B1 No opposition filed  
LANGUAGE (Publication,Procedural,Application): English; English; English  
FULLTEXT AVAILABILITY:  
Available Text Language Update Word Count  
CLAIMS B (English) EPBBF1 453  
CLAIMS B (German) EPBBF1 422  
CLAIMS B (French) EPBBF1 511  
SPEC B (English) EPBBF1 2305  
Total word count - document A 0  
Total word count - document B 3691  
Total word count - documents A + B 3691

INTERNATIONAL PATENT CLASS (V7): **E05B-047/02** ...  
... **E05B-065/02**

...SPECIFICATION of the lock mechanism.

Furthermore, by mounting the transmission or dogging element on the same **shaft** as the follower element provided with said slot and closely adjacent said follower element, it...by a faceplate 20 in which an aperture 20a is provided for accommodation of a **latch hook** 4.  
Formed in one side surface 2a of the lock housing is a circular hole...

...accommodated for coaction with a cylinder follower 19.

The other side surface 2c of the **lock** housing has a corresponding hole for accommodating a further dogging element, which may have the form, for instance, of a **knob** or a further cylinder follower.

The **lock** mechanism is thus manipulated with the aid of a key, in a conventional manner, via a cylinder **lock** from at least one side of the housing.

The **lock** is manipulated mechanically via a projection 19a on the cylinder- **lock** follower 19, which when the key is turned enters a notch or cut-out 18a...

...pivotally mounted on a pivot shaft 5.

The drive element 6 is biased by a **spring** 27 and, by means of a dogging element 5b, is brought into engagement with a slot 4b provided in the central part 4a of the **latch hook** 4, said central part having roughly the shape of a circle segment.

Rotation of the...

...the follower element 17, pivoting of the drive element 6 and outward swinging of the **latch hook** 4 from the free position shown in Figures

2 and 3 to the **latching** position shown in Figures 1, 4, 5 and 6.

The described components of a narrow profiled **lock** of the aforesaid kind, and the manner in which said components function, belong to prior ...

...of Figures 3 and 5.

The dogging element 8 is pivotally mounted on the same **shaft** 7 as the follower element 17 and is located closely adjacent said follower element. On...

**22/5,K/16 (Item 16 from file: 348)**

DIALOG(R)File 348:EUROPEAN PATENTS

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00377525

**Oven with latch mechanism.**

**Backofen mit Verschluss.**

**Four avec fermeture.**

PATENT ASSIGNEE:

SOCIETE COOPERATIVE DE PRODUCTION BOURGEOIS (Societe Cooperative de Production Anonyme a Capital Variable), (1056290), 364 route des Epinettes, F-74210 Faverges, (FR), (applicant designated states: DE; ES; GB; IT; NL; SE)

INVENTOR:

Faurel, Jacques, 11 rue des Noisetiers Meythet, F-74000 Annecy, (FR)

LEGAL REPRESENTATIVE:

de Beaumont, Michel (39712), Cabinet Poncet 7, chemin de Tillier B.P. 317, F-74008 Annecy Cedex, (FR)

PATENT (CC, No, Kind, Date): EP 369906 A1 900523 (Basic)

EP 369906 B1 920729

APPLICATION (CC, No, Date): EP 89420443 891115;

PRIORITY (CC, No, Date): FR 8815209 881117

DESIGNATED STATES: DE; ES; GB; IT; NL; SE

INTERNATIONAL PATENT CLASS (V7): F24C-015/02; **E05C-005/00** ;

CITED PATENTS (EP A): US 4163443 A; US 4554907 A; US 3831580 A; DE 1906621

B

ABSTRACT EP 369906 A1 (Translated)

The latch according to the invention comprises a hook (7) which is slidably mounted in the oven body (1) between a locking position, in which no lateral movement of the hook is possible, and a catching position in which the hook may be displaced laterally counter to the retaining force of a spring (17) for the passage of the pin (14) of the door (2). A lever (24) retains the hook (7) in the locking position, and must be actuated in order to make possible the unlocking and the opening of the door.

TRANSLATED ABSTRACT WORD COUNT: 96

ABSTRACT EP 369906 A1

La fermeture selon l'invention comprend un crochet (7) monte a coulissement dans le corps de four (1) entre une position de verrouillage, dans laquelle aucun debatement lateral de crochet n'est possible, et une position d'accrochage dans laquelle le crochet peut se deplacer lateralement a l'encontre de l'effort de retenue d'un ressort (17) pour le passage de l'ergot (14) de porte (2). Un levier (24) retient le crochet (7) en position de verrouillage, et doit etre actionne pour permettre le deverrouillage et l'ouverture de la porte.

ABSTRACT WORD COUNT: 89

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 900523 A1 Published application (A1with Search Report ;A2without Search Report)

Examination: 901205 A1 Date of filing of request for examination:

901013

Examination: 910515 A1 Date of despatch of first examination report:  
910328

Grant: 920729 B1 Granted patent

Oppn None: 930721 B1 No opposition filed

LANGUAGE (Publication,Procedural,Application): French; French; French

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	EPBBF1	1150
CLAIMS B	(German)	EPBBF1	1063
CLAIMS B	(French)	EPBBF1	1144
SPEC B	(French)	EPBBF1	3439

Total word count - document A 0

Total word count - document B 6796

Total word count - documents A + B 6796

...INTERNATIONAL PATENT CLASS (V7): **E05C-005/00**

...CLAIMS B1

1. An oven with a **latch** mechanism comprising a hook (7) mounted in the oven body (1) and operating in conjunction...

...5) of the oven body (1), forming an axis of rotation for the hook, the **hook** comprises an anterior aperture (10) in an L configuration, with a longitudinal branch of the...

...branch (11) diverging in the direction of opening of the retaining seat (13) of the **hook**, a second transverse stem (6) of the oven body being mounted to slide in the...

...transverse stems (5, 6) and the apertures (9, 10) constituting the guiding means for the **hook** between the locked position and the **latched** position.

6. An oven according to any one of Claims 1 to 5, characterised in...

...means of a lower tooth (23) in conjunction with an upper shoulder (22) of the **hook**, and urged by an actuating stem (26) whose end comprises the core (27) of an...

...operating handle (29), the mobile stop tooth (23) engaging on the shoulder (22) of the **hook** under gravitational force when the **hook** is pushed back into the locked position.

7. An oven according to Claim 6, characterised...

...the user, and with a second switch (33) actuated by a ramp (34) of the **hook** (7), the said second switch (33) being closed when the **hook** is in the locked position, and open when the **hook** is in the other positions.

8. An oven according to any one of Claims 1...

...pin (14), which they retain on either side in the locked position and in the **latched** position.

9. An oven according to any one of Claims 1 ...panel (44) away from the external wall (41), so that, upon closing the door, the **hook** (7), in the **latched** position, produces a braking effect on the door, and slows the application of the internal...

...enclosure.

10. An oven according to Claim 9, characterised in that the travel of the **hook** (7) between its locked position and its **latched** position is slightly greater than the travel of the internal panel (44) relative to the...

...unlocking, the door is brought into the latched position in which the internal panel (44) **moves** slightly away from the oven body (1) and liberates the gases and vapours contained within...

22/5,K/17 (Item 17 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
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00310384

**Curtainside truck trailer access system and lock assembly.**  
**Zugangssystem und Verriegelungsaufbau für LKW-Anhänger mit Seitenplanen.**  
**Systeme d'accès et ensemble de verrouillage pour une remorque de camion**  
**avec prelat lateral.**

PATENT ASSIGNEE:

THE EASTERN COMPANY, (956900), 21944 Drake Road, Cleveland Ohio 44136,  
(US), (applicant designated states: DE;FR;GB)

INVENTOR:

Pastva, John V., 10839 Holliston Lane, Parma Heights Ohio 44130, (US)

LEGAL REPRESENTATIVE:

Adams, William Gordon et al (27554), RAWORTH, MOSS & COOK 36 Sydenham  
Road, Croydon Surrey CR0 2EF, (GB)

PATENT (CC, No, Kind, Date): EP 292098 A1 881123 (Basic)  
EP 292098 B1 920115

APPLICATION (CC, No, Date): EP 88302360 880317;

PRIORITY (CC, No, Date): US 53278 870521

DESIGNATED STATES: DE; FR; GB

INTERNATIONAL PATENT CLASS (V7): B62D-033/04; **E05C-009/08** ;

CITED PATENTS (EP A): DE 2847744 A; DE 2847744 A; EP 152195 A; EP 152195 A;  
GB 2071582 A; EP 51931 A

ABSTRACT EP 292098 A1

A system for accessing interior portions of a curtainside truck trailer including a flexible curtain, upper and lower roller assemblies secured to the curtain for engagement with upper and lower rails mounted on the truck trailer for supporting the curtain during expanding and contracting movement along the rails. A support panel (22) is mounted between upper (D) and lower (E) longitudinal edge portions of the truck trailer, and a latching mechanism (20) is connected to the support panel (22) which includes a shaft with a vertical axis of rotation, a latch attached to the shaft engagement with a keeper attached to the curtain. An operating member is attached to the shaft for rotating the shaft about its longitudinal axis and engaging the latch and keeper. A latch guide is captively engaged by the latch and attached to the support panel for guiding movement of the latch into engagement with the keeper. A spring biased locking mechanism for locking the latching mechanism and securing the curtain in the closed position.

ABSTRACT WORD COUNT: 173

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 881123 A1 Published application (A1with Search Report  
;A2without Search Report)

Examination: 890726 A1 Date of filing of request for examination:  
890521

Examination: 901114 A1 Date of despatch of first examination report:  
901003

Grant: 920115 B1 Granted patent

Lapse: 921111 B1 Date of lapse of the European patent in a  
Contracting State: FR 920605

Oppn None: 930107 B1 No opposition filed

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	EPBBF1	832
CLAIMS B	(German)	EPBBF1	898
CLAIMS B	(French)	EPBBF1	886
SPEC B	(English)	EPBBF1	4571

Total word count - document A 0  
Total word count - document B 7187  
Total word count - documents A + B 7187

...INTERNATIONAL PATENT CLASS (V7): **E05C-009/08**

...SPECIFICATION prevent rotation of the spool. This arrangement is complicated and requires a deep recess for **the** spool arrangement which takes up valuable space in the limited volume of the trailer.

A...rotatably connected to the shaft adjacent opposite ends of the shaft by a bracket. Each **latch** additionally includes an elongated guide aperture for engagement with the **latch** guide. The keepers are preferably configured to support a vertically extending handle between the keepers...

...handle mounted on the curtain and pulling the curtain to a substantially closed position. The **latches** are in an extended position in which they **hook** onto their associated keepers. The shaft of the **latch** mechanism is then rotated to tension the curtain and secure the **latches** to their keepers. To rotate the shaft the operator moves the operating member **from** a position at right angles with the support panel to a position which is parallel with the support panel. This pulls the **latches** to a retracted position. The captive engagement **of** the guide members through the guide apertures in the **latches** controls the path of **travel** of the **latches** such that they **are** urged into proper engagement with the associated keepers. When the operating member is moved to a position **parallel** with the panel and the latches and keepers are engaged, it engages the trigger thumb...

...taken along the 1 line 7-7 of Figure 6;

Figure 8 is a sectional **view** taken along the line 8-8 of Figure 6;

Figure 9 is a front elevation...30 of the fastener spaced from the first secures the spring 34 within the containment **portion** 33.

Figure 3 illustrates the roller 25 engaged within the rail 16 which is secured...body portion 77 facing the support panel. The opposite end of the latch has a **latch** retaining portion 80 which is intumed or projects inwardly toward the shaft 50 for engagement...

...keeper along a cam surface 81 as shown in Figure 13. During engagement of the **latch** and keeper, the retaining portion 80 **hooks** over and the cam surface 81 engages the keeper.

The **latch** guide 85, illustrated in Figure 12, is secured to the support panel at a location for captive engagement with the **latch** guiding aperture 82. Pivotal movement of the **latch** upon rotation of the shaft 50 is thus limited by the captive engagement of the **latch** guide 85 with the guiding aperture 82. The **latch** guide 85 includes a plate 86 which is secured to the support panel through apertures 87. Leg **portions**

88 extend from the plate in a direction away from the support panel. A grab...axis of the shaft 50. The grab member 87 captive within the guiding aperture 82 **of** the **latch**, control the rotating movement of the **latch** as it moves between **latched** and unlatched positions, and guide the **latch** to provide proper engagement with the associated keeper.

As shown in Figure 10, keepers 58...

...to overcome the leaf spring biasing the body portion away from the support panel, and **move** the handle portion 70 past the body portion 113 into association with the engagement groove...

00249265

**Magnetic key operated locking mechanism.**

**Durch magnetischen Schlüssel betätigbares Schloss.**

**Serrure commandée par cle magnetique.**

PATENT ASSIGNEE:

Sedley, Bruce Samuel, (284040), R.R.1, Box 96, Koloa, Kauai, Hawaii 96756

, (US), (applicant designated states:

AT;BE;CH;DE;ES;FR;GB;GR;IT;LI;NL;SE)

INVENTOR:

Eisermann, Armin, Eichholz Strasse 14, W-5620 Velbert 1, (DE)

Sedley, Bruce S., R.R. 1, Box 96 Koloa, Kauai Hawaii 96756, (US)

LEGAL REPRESENTATIVE:

Bouju, Andre et al (14251), Cabinet Bouju Derambure (Bugnion) S.A. B.P.

6250, F-75818 Paris Cedex 17, (FR)

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EP 241323 B1 920916

APPLICATION (CC, No, Date): EP 87400474 870304;

PRIORITY (CC, No, Date): US 837528 860307

DESIGNATED STATES: AT; BE; CH; DE; ES; FR; GB; GR; IT; LI; NL; SE

INTERNATIONAL PATENT CLASS (V7): E05B-047/00 ;

CITED PATENTS (EP A): FR 2372945 A; FR 2372945 A; US 4125008 A; US 3995460

A; US 3896645 A; EP 160470 A; US 3096114 A

ABSTRACT EP 241323 A2

A coded card key (14) is insertable through a slot (15) to bring into alignment coded magnetic areas on the card with magnetic pins (28) of the lock to unlock a core (24) relative to a locking plate (21) and enable the core (24) to be driven downwardly by the card engaging its lower flange (26).

The core (24) has a cam surface (31) urging to the left a spring leaf (33) and therewith a coupling spline (46) to engage it with a spindle spline (42) carried by a shaft interconnected with the door handle, so that rotation of the door handle will now effect release of the door locking mechanism. Insertion of the card (14) pushes toward the right a hook (53) retaining the core (24) in its lower position despite spring (29(')), thus allowing the user to release card (14) and turn the door handle with the same hand. Withdrawal of the card (14) by the user allows return movement of hook (53), core (24) and coupling spline (46).

Actuation through a spring (33) allows for self-alignment during coupling.

ABSTRACT WORD COUNT: 185

LEGAL STATUS (Type, Pub Date, Kind, Text):

Lapse: 20000126 B1 Date of lapse of European Patent in a contracting state (Country, date): GR 19920916, SE 19920916,

Application: 871014 A2 Published application (A1with Search Report ;A2without Search Report)

Examination: 871014 A2 Date of filing of request for examination: 870511

Search Report: 881019 A3 Separate publication of the European or International search report

Examination: 890726 A2 Date of despatch of first examination report: 890613

Change: 900926 A2 Representative (change)

Change: 920902 A2 Inventor (change)

Grant: 920916 B1 Granted patent

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LANGUAGE (Publication,Procedural,Application): English; English; English

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Available Text	Language	Update	Word Count
CLAIMS B	(English)	EPBBF1	1213
CLAIMS B	(German)	EPBBF1	1166



CLAIMS B	(French)	EPBBF1	1465
SPEC B	(English)	EPBBF1	3818
Total word count	- document A		0
Total word count	- document B		7662
Total word count	- documents A + B		7662

INTERNATIONAL PATENT CLASS (V7): **E05B-047/00**

...SPECIFICATION present a substantially flat surface along which one major surface of the card 14 can **slide** during card insertion. The shield plate 19 is resiliently urged toward the cover plate 20...

...by threaded means 38 so as to extend generally parallel to the back plate and **core**.

Again referring to Figure 2, the door handle 12 is secured to a hollow cylindrical...

...44, the outer end of the latter identified as at 45 interconnecting with the door **latch** -retractor (not shown). The rod 43 rotates freely in the lock spline driver 44 and does not transfer an actuating force to the door **latch** mechanism.

A hollow coupling spindle 46 has an internal set of longitudinally extending splines which...

...dimensions as to enable receipt of the leaf spring yoke 34 thereabout. A compression spring **47** located within a guide tube 48 received about the coupling 46 urges the two apart...

...the upper flange of guide tube 48 in hole 64. The flange can be rotatably **fixed** in various positions to bias the spring 49 either right or left. The opposite end...

...2 and 4, it is seen that movement of the core 24 to its lowermost (**released** position) moves the cam surface 31 against the leaf spring end portion ...between the handle 12 and the lock spline driver 44 enabling actuation of the door **latch** mechanism to open the door.

On the core moving upwardly again from the Figure 4...

...handle 12 is free to rotate, returning to its first position by spring 49. If **knob** 13 is installed instead of a handle, spring 49 is not used, stop washer 61 is replaced with a spacer washer without stop and the **knob** freely spins in either **direction**.

By the use of a leaf spring as the drive linkage between core movement and...

...on the spindle 42 (i.e., the splines bottom on each other), the leaf spring **deforms** a slight amount but maintains pressure so that even a very slight movement of the handle will quickly establish meshing between the two splines. The leaf **spring** does not retain a set even **though** held in stressed position.

For the ensuing description of the means for maintaining the internal

...

...long as the card 14 is in slot 15, reference is additionally made to Figure **3** which is a rear elevational, sectional view of the apparatus of Figure 2 and detail Figures 5 and 6. First and second stub shafts **50** and **51** are affixed to the sidewalls of the core 24 to extend generally parallel...

...the core can now begin to retract the core back to locked position. In so **moving**, the cams are forced by the limit spring arms 36 and 37 to rotate once...

22/5,K/19 (Item 19 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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01346669 \*\*Image available\*\*

**LATCH WITH DUAL ROTARY PAWLS**  
**VERROU A DOUBLE CLIQUET ROTATIF**

Patent Applicant/Assignee:

SOUTHCO INC, 210 North Brinton Lake Road, P.O. Box 116, Concordville, PA  
19331, US, US (Residence), US (Nationality), (For all designated states  
except: US)

Patent Applicant/Inventor:

CARABALONA Eric, 1 Woodmill Meadow,, Kenilworth, Warwickshire,, CV8 2XP,  
GB, GB (Residence), FR (Nationality), (Designated only for: US)

Legal Representative:

OJAN Ourmazd S et al (agent), Paul & Paul, Two Thousand Market Street,  
Suite 2900, Philadelphia, PA 19103, US

Patent and Priority Information (Country, Number, Date):

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Application: WO 2005US30818 20050831 (PCT/WO US2005030818)  
Priority Application: US 2004606257 20040901; US 2004611937 20040921

Designated States:

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2004+)

AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM  
DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KM KP KR KZ  
LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NA NG NI NO NZ OM PG PH PL  
PT RO RU SC SD SE SG SK SL SM SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU  
ZA ZM ZW  
(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LT LU LV MC NL  
PL PT RO SE SI SK TR  
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG  
(AP) BW GH GM KE LS MW MZ NA SD SL SZ TZ UG ZM ZW  
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International Patent Class (v8 + Attributes)

IPC + Level Value Position Status Version Action Source Office:

**E05C-0019/10** A I F B 20060101 H US

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 19241

English Abstract

A latch with dual rotary pawls is disclosed. The latch is particularly  
suited for releasably securing dual doors of a compartment in the closed  
position. Each rotary pawl engages a striker attached to a respective one  
of the doors to secure both doors in the closed position relative to the  
compartment.

French Abstract

La présente invention a trait a un verrou a double cliquet rotatif. Le  
verrou est particulièrement adapte pour la solidarisation amovible de  
porte double d'un compartiment en position fermee. Chaque cliquet rotatif  
engage un percuteur fixe a une des portes respectives pour solidariser  
les deux portes en position fermee par rapport au compartiment.

Legal Status (Type, Date, Text)

Publication 20060316 A2 Without international search report and to be  
republished upon receipt of that report.

Search Rpt 20060413 Late publication of international search report

Republication 20060413 A3 With international search report.

Republication 20060413 A3 Before the expiration of the time limit for

amending the claims and to be republished in the event of the receipt of amendments.

International Patent Class (v8 + Attributes)

IPC + Level Value Position Status Version Action Source Office:

**E05C-0019/10** ...

Fulltext Availability:

Detailed Description

Detailed Description

... pawl claws 840, 842, respectively, of both pawls 806, 808 are positioned, due to the **spring** bias applied to the slides 884, 886, such that the pawl claws 840, 842 point...

...the respective pawl 806, 808 causes the rotation of the pawls 806, 808 toward the **latched** position as each slide is pushed into the housing 832. As a result, each pawl 806, 808 is rotated to its **latched** position due to the movement of the doors 802, 804 toward their closed positions. As each of the pawls 806, 808 rotates to its respective **latched** position due to the closing of the doors 802, 804, the claw 840, 842 of each pawl 806, 808 **hooks** under the catch surface of the respective striker 814, 816. Once the pawls 806, 808 complete their rotation to their **latched** positions, the pawls are selectively retained in the **latched** position by **locking** bar 820. To open the doors 802, 804, the push **button** is pushed causing the actuator 900 to be energized and the **locking bar** 820 to be retracted to the release position such that the pawls 806, 808 are...

...and thus release the strikers 814, 816 to allow the doors to be opened.

The **latch** 800 provides for the complete closing of both doors when one striker lags behind. The **latch** 800 relies on the doors 802 and 804 having some over travel (within specified limits) to allow the lagging striker to finally reach its fully **latched** position via the help of the mechanism linking the doors.

Referring to Figs. 129-150, the operation of the **latch** 800 in cases when one striker lags the other is illustrated. Figs. 129, 136, and 143, show the **latch** 800 with the pawls 806, 808 in the unlatched position and with the strikers 814...

...is leading and the cam lobe 815 is keeping the locking bar 820 in the **release** position to allow the lagging striker 816 to disengage from its corresponding pawl 808.

Advantages...

**22/5,K/20** (Item 20 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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01268033 \*\*Image available\*\*

**DOOR HANDLE, WITH BUILT-IN SPRING LATCH ACTUATION MECHANISM FOR DOOR OPENING**

**POIGNEE DE PORTE COMPRENANT UN MECANISME INTEGRE D'ACTIONNEMENT DU LINGUET A RESSORT POUR UNE OUVERTURE DE PORTE**

Patent Applicant/Assignee:

GI GAR S R L, 37, Via Recanatense, I-60022 Castelfidardo, IT, IT

(Residence), IT (Nationality), (For all designated states except: US)

Patent Applicant/Inventor:

GAROFOLI Fernando, Via Monticelli, 2, I-60022 Castelfidardo, IT, IT

(Residence), IT (Nationality), (Designated only for: US)

Legal Representative:

BALDI Claudio (agent), 13 Viale Cavallotti, I-60035 Jesi, IT,

Patent and Priority Information (Country, Number, Date):

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Priority Application: IT 2004MC21 20040210

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AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM  
DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC  
LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NA NI NO NZ OM PG PH PL PT RO  
RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW  
(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PL PT RO  
SE SI SK TR  
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG  
(AP) BW GH GM KE LS MW MZ NA SD SL SZ TZ UG ZM ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class (v7): **E05C-001/14**

International Patent Class (v7): **E05B-001/00**

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 5831

English Abstract

The present invention refers to a door handle with built-in in spring latch actuation mechanism for door opening, whose actuation can be inhibited from the external side of the door with a key inserted into the body of the handle, while from the internal side of the door the actuation can be inhibited by means of blocking rod that slides inside the body of the handle.

French Abstract

La presente invention concerne une poignee de porte comprenant un mecanisme integre d'actionnement du linguet a ressort pour une ouverture de porte, dont l'activation peut etre empechee depuis le cote exterieur de la porte avec une cle introduite dans le corps de la poignee alors que du cote interieur de la porte, l'activation peut etre empechee au moyen d'une barre de blocage qui coulisse dans le corps de la poignee.

Legal Status (Type, Date, Text)

Publication 20050818 A1 With international search report.

Main International Patent Class (v7): **E05C-001/14**

International Patent Class (v7): **E05B-001/00**

Fulltext Availability:

Detailed Description

Detailed Description

... The purpose of the present invention is to realise a door handle with built-in **spring** latch in order to eliminate the bulky box that contains the mechanism and the bolt...

...to close and lock the latch that can be actuated manually by means of a **button** from the internal side or by means of a safety key from the external...

...is placed between the two parts and pivoted on a vertical pin, ending with a **hook** that engages into a through hole located on the spring **latch**, while the other end of the lever features an enlarged head that acts as opening **button**.

The opening **button** projects from the back of the handle and receives

the expulsive thrust of a spring.

If the **button** is pressed, the **spring** is compressed and the lever rotates with respect to the pivoting pin, thus determining the retraction of the **spring latch** with the **hook**.

The handle of the invention is realised in two different embodiments, of which one is...

...inside a housing and guiding track and ends with a point designed to prevent the **latch** from travelling backwards when the blocking rod is pushed at the end of the forward travel, thus overcoming the resistance of the expulsion **spring**.

The rod is stopped at the end of the forward travel due to a hooking...

...blocking rod that snaps out of the handle body under the thrust of the expulsion **spring**.

Also the external handle is provided with the opening lever with ending **hook**, but not with blocking rod, being provided with a closing device of cylindrical block type...

...door from the internal side, since external closing holds the opening lever, but leaves the **spring latch** free to move backwards, with no obstacle for the actuation of the opening lever...

...is a top view of the external handle in idle position with the upper part **removed** to show the position and layout of internal components in the lower part;  
- Fig. 5...

...and 25 show an embodiment of the handle of the invention provided with an opening **lever** and blocking rod that slightly differ from the ones used in the embodiments shown in...

...respect to the housing (S) where the housing and guiding box (4) of the spring **latch** (5) is inserted.

The body-handle (1) contains an opening lever (3) pivoted on a...

...handle (1), meaning that the lever (3) has a first support section for the opening **button** (3a) housed in the handle and joined with a second shaped section (3b) that ends with a **hook** (3c) that projects from the front end of the inclined section (TI) of the body-handle (1).

The **hook** (3c) is designed to be inserted through a suitable slot (A) located on the leaf (B) of the door, penetrating the housing and guiding box (4) of the **spring latch** (5), whose body is provided with a through hole (5a) into which the ending section of the **hook** (3c) is inserted.

A **spring** (7) acts on the back of the opening **button** (3a) and pushes it constantly outside the body-handle (1), thus holding it in the...

...it can be said that the projecting end of the rod is the io blocking **button** (9a) of the handle.

The other end of the blocking rod (9) ends with a...

...is  
actuated, the point (9b) is placed on the back of the body of the **spring latch** (5) to oppose the return travel inside the housing and guiding box (4), as shown...

...Fig. 31 it being evident that door opening is subjected to the retraction of the **spring latch** (5).

This means that the user can prevent door opening with the blocking rod...  
...door.

On the bottom of the sliding track (8) a cavity (8a) houses a return **spring** (10) hooked to the blocking rod (9) designed to push the blocking rod (9) and eject the **button** (9a) from the body-handle (1).

Above the blocking rod (9), a hooking pin (9c)...

...12a) so that the horizontal wing (13a) of the L-shaped bracket (13) is consequently **moved** from an horizontal to a vertical plane.

The horizontal wing (13a) of the L-shaped...

...see Fig.

10), which returns inside the chamber (120) and allows for actuating the opening **lever** (3).

The first section (121d') of the guiding groove (121d) allows for inserting the key...

...designed to operate in combination with the housing and guiding box (40), where the **spring latch** (50) is actuated by means of the interposition of the lever (51).

Moreover, it must...

...appendix (30b) that comprises a first hook (30c) and a second hook (30e).

The first **hook** (30c) is designed to **hook** and move the lever (51) when the io opening button (3a) is pushed, as shown in Fig. 24.

As shown in Fig. 27, in idle state the **hook** (30c) is adjacent and overlapped with respect to the **hook** (3c) of the opening lever (3) mounted on the external handle (ME), as the **hook** (3c) is designed to **hook** and move the lever (51) when the opening button (3a) of the external handle (ME)...

...that ends with a catch (90b) capable of interfering with the internal profile of the **hook** (3c) when the blocking rod (90) is pushed forward, as shown in Figs.

25 and 29.

The second **hook** (30d) of the lever (30) is used to automatically release the blocking rod (90) when the **latch** (50) moves back inside the housing (40a) accidentally, when the user has not actuated the...

...lever (30)

It must be noted that, when the rod (90) is inserted, the second **hook** (30d) is engaged on the back of the lever (51), thus being interfered when the lever (51) oscillates backwards due to a backward travel of the

**Latch** (50) that is not caused by the actuation of the opening lever

(30).

A similar...

...open, so that the closing of the door would cause the backward movement of the **latch** (50) due to interference with the leaf (B) of the door frame.

It must be noted that the **latch** (50) can move back freely, as the catch (90b) of the rod (90) does not interfere with the **latch** (50) directly, unlike the blocking rod (9), whose point (9b) is positioned immediately behind the latch (50), thus preventing its backward travel, until the user actuates the opening **lever** (3) mounted on the internal handle (MI).

22/5,K/21 (Item 21 from file: 349)

DIALOG(R) File 349:PCT FULLTEXT

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01226574 \*\*Image available\*\*

**VEHICLE DOOR LOCK MECHANISM**  
**MECANISME DE VERROUILLAGE DE PORTIERE DE VEHICULE**

Patent Applicant/Assignee:

KEY PLASTICS LLC, 21700 Haggerty Road, Suite 100 North, Northville, MI 48167, US, US (Residence), US (Nationality), (For all designated states except: US)

Patent Applicant/Inventor:

PUDNEY Richard, Plymouth, MI 4817, US, US (Residence), US

(Nationality), (Designated only for: US)

Legal Representative:

DRAYER Lonnie R (et al) (agent), Key Safety Systems, Inc., 5300 Allen K. Breed Highway, Lakeland, FL 33811-1130, US,

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DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC  
LK LR LS LT LV MA MD MG MK MN MW MX NA NI NO NZ OM PG PH PL PT RO  
RU SC SD SE SG SK SL SY TJ TM TN TR TT UA UG US VZ VC VN YU ZA ZM ZW  
(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PL PT RO  
SE SI SK TR  
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG  
(AP) BW GH GM KE LS MW MZ NA SD SL SZ TZ UG ZM ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class (v7): **E05B**

Publication Language: English

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Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 3873

English Abstract

A vehicle door lock mechanism has a door handle (110) manually movable from a rest position to an activated position. A bias spring (170) biases the door handle (110) to automatically return to the rest position. A lock button (210) is movable from an unlocked position to a locked position. When the lock button (210) is in the locked position an

associated door lock is locked, thereby preventing the door from being opened. When the lock button (210) is in an unlocked position the door lock is capable of being opened by the door handle (110). When the lock button (210) is moved to the activated position a quick release of the door handle (110) from its activated position initiates movement of the lock button (210) from the unlocked position to the locked position. The lock mechanism (20) includes a lever assembly (300; 302) having a programmed lever for blocking the lock button (210) from moving to its locked position in response to the quick release of the door handle (110). When the lock button (210) is in the locked position an associated door lock mechanism (20) is locked thereby preventing the door from being opened at least from the exterior of the vehicle. The lock button (210) is configured such that when it is in an unlocked position the lock button (210) is capable of inadvertently being moved to its locked position by at least the operation of the door handle (110).

#### French Abstract

L'invention concerne un mécanisme de verrouillage de portière de véhicule comprenant une poignée de portière (110) pouvant être déplacée manuellement et passer d'une position de repos à une position active. Un ressort de polarisation (170) ramène la poignée de portière (110) automatiquement vers la position de repos. Un bouton de verrouillage (210) peut passer d'une position deverrouillée à une position verrouillée. Lorsque le bouton de verrouillage (210) est dans la position verrouillée, un verrou de portière associé est verrouillé, ce qui empêche l'ouverture de la portière. Lorsque le bouton de verrouillage (210) est dans une position deverrouillée, le verrou de portière peut être ouvert par la poignée de portière (110). Lorsque le bouton de verrouillage (210) est déplacé vers la position active, une libération rapide de la poignée de portière (110) à partir de sa position active déclenche le mouvement du bouton de verrouillage (210) à partir de la position deverrouillée vers la position verrouillée. Le mécanisme de verrouillage (20) comprend un ensemble de levier (300 ; 302) comportant un levier programme pour bloquer le bouton de verrouillage (210) afin d'éviter qu'il ne se déplace vers sa position verrouillée en réponse à la libération rapide de la poignée de portière (110). Lorsque le bouton de verrouillage (210) est dans la position verrouillée, un mécanisme de verrouillage de portière associé (20) est verrouillé, ce qui permet d'éviter que la portière ne soit ouverte de l'extérieur du véhicule. Le bouton de verrouillage (210) est conçu, lorsqu'il est dans une position deverrouillée, pour pouvoir être déplacé par megarde vers sa position verrouillée par la poignée de portière (110).

Legal Status (Type, Date, Text)

Publication 20050414 A2 Without international search report and to be republished upon receipt of that report.

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Detailed Description

Detailed Description

... rest position, through a mid-position to its active position causes the lock button to move from its unlocked position to an over-rotated or an extended position. Subsequently, as the...  
... handle and might occur if sufficiently high spring bias forces are applied to the lock button directly or indirectly.

Some prior art solutions show the use of expensive viscous damping...  
... the door handle, which in turn controls the degree of momentum transfer to the lock button .



Figure 1 is an exploded view of the major components of the present invention.

Figure...

...view of the present invention.

Figure 2 schematically illustrates the operational positions of a lock **button** of the present invention.

Figure 3 is an isometric view of a portion of some...

...present invention.

Figure 4 is a top plan view of the base, handle and lock **button** .

Figure 5 shows some of the major components of the present invention in a locked...

...20 incorporating the present invention. The door lock mechanism 20 includes an interior handle/lock **button** assembly 30 that is operatively communicated to a **latch** or lock 40, which engages and disengages from a lock bar or a pin 41...

...in the art, the lock 40 will include one or more articulated claws or pivoting **hooks** , to engage and disengage the bar, or pin, 41.

The handle/lock **button** assembly 30 is operatively connected to the lock 40 via cable 42. The cable 42 is **spring** biased by a bias **spring** 44 that can be located at either end of the cable and for the purpose of illustration is shown associated with the lock 40.

The interior handle/ **lock button** assembly 30 includes a mounting plate or base 100 adapted to be fixedly mounted to...

...slightly angled therefrom. The assembly 30 includes an interior handle 110 and a **lock button**

3

0. The handle 110 is pivotally mounted upon the base 100...

...through respective openings 115, 117 in the pivot points 114, 116.

The pivoted **lock button** 210 is positioned in close proximity to the interior handle 110. The...

...or plurality of interfering projections. The lock button is manually moveable, however, it can be **moved** by an actuator such as a solenoid or motor. The axis of rotation 212 may...

22/5,K/22 (Item 22 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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01214958 \*\*Image available\*\*

**HANDLE ASSEMBLY WITH DUAL LATCH FEATURE**

**ENSEMBLE DE MANCHE A CARACTERISTIQUE DE VERROUILLAGE DUAL**

Patent Applicant/Assignee:

KEY PLASTICS LLC, 21700 Haggerty Road, Suite 100, Northville, MI 48167,  
US, US (Residence), US (Nationality), (For all designated states  
except: US)

Patent Applicant/Inventor:

PUDNEY Richard J, 11315 Aspen, Plymouth, MI 48170, US, US (Residence), US  
(Nationality), (Designated only for: US)

Legal Representative:

DRAYER Lonnie R (et al) (agent), Key Safety Systems, INC, 5300 Allen K.  
Breed Highway, Lakeland, FL 33811-1130, US,

Patent and Priority Information (Country, Number, Date):

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Application: WO 2004US27297 20040823 (PCT/WO US04027297)  
Priority Application: US 2003648911 20030827

Designated States:

(All protection types applied unless otherwise stated - for applications  
2004+)

AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM  
DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC  
LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NA NI NO NZ OM PG PH PL PT RO  
RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW  
(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PL PT RO  
SE SI SK TR  
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG  
(AP) BW GH GM KE LS MW MZ NA SD SL SZ TZ UG ZM ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class (v7): **E05B-065/12**

International Patent Class (v7): **E05B-065/20**

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 5226

English Abstract

A handle assembly (10) is disclosed. The assembly includes a rotatable, spring handle (12, 120) with a plunger (14, 114) having a first engagement feature or surface (16, 116) for receipt of a spring force; a trigger device (20, 150) in operative connection with the handle; and a blocking member (24, 160) movable with the handle and rotatably mounted on the handle, the blocking member including a latch at a distal end thereof (26, 166). The blocking member is in operative connection with the trigger device and a portion of the latch is retained by a remote retention surface (22) when the assembly is in a locked configuration. Upon sufficient mechanical movement of the trigger device and the blocking member, the latch is no longer restricted by the retention surface.

French Abstract

L'invention concerne un ensemble de manche (10). Ledit ensemble comprend un manche sur ressort rotatif (12, 120) pourvu d'un poussoir (14, 114) presentant une premiere caracteristique ou surface de contact (16, 116) destinee a recevoir une tension de ressort, un dispositif de declenchement (20, 150) rattache fonctionnellement au manche, et un element de verrouillage (24, 160) qui se deplace avec le manche et qui est monte rotatif au manche, ledit element de verrouillage comportant un verrou au niveau d'une extremite distale correspondante (26, 166). Ledit element de verrouillage est rattache fonctionnellement au dispositif de declenchement et une partie du verrou est retenue par une surface de retenue a distance (22), lorsque ledit ensemble se trouve en position verrouillee. Suite a un mouvement mecanique suffisant du dispositif de declenchement et de l'element de verrouillage, le verrou n'est plus retenu par la surface de retenue.

Legal Status (Type, Date, Text)

Publication 20050310 A1 With international search report.

Main International Patent Class (v7): **E05B-065/12**

International Patent Class (v7): **E05B-065/20**

Fulltext Availability:

Detailed Description

## Claims

### Detailed Description'

... or other significant force occurrence.

The present invention comprises a door handle assembly with a **movable** handle. In the preferred embodiment the handle is configured to be rotationally mounted to a...

...or engagement surface.

When the handle is moved sufficiently away from the door, a door **latch** (sometimes referred to in the art as a door lock) is moved to an open...

...unlatched and ready to be pulled open. The handle can act directly on the door **latch** or indirectly through a cable or bar, as the handle and door **latch** are often remotely located.

The handle assembly includes a blocking member also referred to as a **latch** member. The blocking member is rotationally fixed in the handle and carried by the handle. The blocking member includes a **latch** or **hook** latchable with a fixedly positioned **latch** surface, wall or feature provided by a cooperating member attached to and movable with the

...door and functions, in part, as an aesthetic trim part of the handle assembly. The **latch** surface need not be formed as part of the cap or lock housing but can...

...moved from its rest position to open the door.

The handle assembly further includes a **spring** -loaded activation member (a **trigger** or **trigger** device) carried by the handle and in part displaceable relative to the handle and displaceable...

...by the handle). Movement of the activation member moves the blocking member away from the **latch** surface to a disengage position. The activation member can be directly biased or loaded by a biased **spring** or indirectly loaded or biased with the **spring** acting, for example, on the blocking member. With the blocking member dislodged from the latch...

...inwardly relative to the handle. The rotatable activation member can be replaced by a linearly movable **button** mounted to the underside of the handle, which directly moves the blocking member, or by...

...a button mounted on the top of the handle and a cooperating lever member that **moves** the blocking member.

The blocking member can further include an inertial mass, which increases the...

...an alternative embodiment of the invention in which the activation member is configured as a **button**.

Referring to Figures 1 - 4, an illustrative embodiment of a handle assembly 10 constructed...

...illustrated configuration and may instead take on a number of alternate configurations provided the desired **latching** function can be achieved.

The assembly 10 additionally includes an activation member (trigger or trigger...

...mechanism that is lifted, depressed, or otherwise actuated by a user to actuate an associated **latch**. As shown the activation member 20 is essentially a bar (lever) configured to rotate about...

...of handle 12. The support member includes an opening for receipt of a manually depressible **button** 23. Inward movement (in the direction of arrow 23b) of **button** 23 causes the blocking member 24 within its **latch** 26 to uncouple from surface 22.

Returning to Figures 1 and 2, the assembly 10 further includes a blocking or **latch** member 24 having a retaining feature or **latch** 26 (latchable with the retention surface 22) latchable with a remote **latch** or retention surface. As illustrated the **latch** or retention surface 22 is formed

within a mating handle connection component such as a cap 28 (or in lock housing 128 that receives a door key). The **latch** surface 22 may be part of any sufficiently rigid component or structure to provide a structure or

surface for securing or retaining the retaining feature or **latch** 26.

The

**latch** 26 may be arcuately shaped or **hook**-like in the form of a J-shaped

**hook** (see Figure 5) or L-shaped "**hook**" (such as shown in Figures 1 and

2), or may instead take on any configuration...

...will be a sufficient overlap or interference in the desirably engaged configuration to prevent unintentional **release** or disengagement. It is however noted that although the exemplary retention surface 22 is illustrated...

#### Claim

... a retaining feature (26, 166) configured to latch with retention surface (22), the blocking member **moved** by the activation member-, wherein the blocking member is retained by a portion of the...

...surface.

2 A handle assembly as recited in claim 1, wherein the handle includes a **pivot** end (32, 132) about which the handle can rotate, the handle further includes proximate an...

...28, 128).

3 A handle assembly as recited in claim 1, including at least one **spring** means (46, 50, 50a) for biasing at least one of the handle and the blocking...

...4 A handle assembly as recited in claim 3, wherein the assembly includes a first **spring** means for biasing the handle and a second **spring** means for biasing the blocking member, the force associated with the first **spring** means is greater than the force associated with the second **spring** means.

5 A handle assembly as recited in claim 2, wherein the retention surface is...

...handle member and wherein the second

handle member is one of a cap (28) and **lock** housing (128), fixedly positioned relative to the handle.

6 A handle assembly as recited in...

...wherein the retaining feature (26, 166) includes one of a J-shaped latch, L-shaped **latch**, or curved **latch**.

7 A handle assembly as recited in claim 1, wherein the blocking member (24, 166)...

...recited in claim 1, wherein the blocking member is comprised of a two-sided mechanical **lever** (24a, 24b; 162, 164).

10 A handle assembly as recited in claim 1, wherein the activation member includes one of a **lever**, **button** (23), or actuation mechanism.

11 A handle assembly as recited in claim 1, wherein the handle includes a plunger with an engagement surface and the blocking member includes a **latch** with **hook**-type feature, the engagement surface and the said **hook**-type feature substantially facing in opposing directions.

12 A handle assembly as recited in claim 1 wherein the blocking member includes an enlarged mass (176) proximate a **pivot** (40) thereof.

13 A handle assembly as recited in claim 1, including a support structure...

**22/5,K/23 (Item 23 from file: 349)**

DIALOG(R)File 349:PCT FULLTEXT

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00902888 \*\*Image available\*\*

#### **LATCHING DEVICE**

#### **DISPOSITIF DE VERROUILLAGE**

Patent Applicant/Assignee:

SOUTHCO INC, 210 North Brinton Lake Road, Concordville, PA 19331, US, US  
(Residence), US (Nationality)

Inventor(s):

VITRY Fabrice, Flat 1, 63 Park Avenue, Worcester WR3 7AJ, GB,  
PINTO Ana, Barn Hall Farm, Hadley Road, Ombersly, Droitwich WR9 0EY, GB,  
SEKULOVIC Ivica, 1A Raglan Street, Worcester, Worcester WR3 8AY, GB,

Legal Representative:

DIDONATO Joseph J (et al) (agent), Paul & Paul, 2900 Two Thousand Market Street, Philadelphia, PA 19103, US,

Patent and Priority Information (Country, Number, Date):

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Application: WO 2001US45724 20011101 (PCT/WO US0145724)

Priority Application: US 2000245089 20001101; US 2000254605 20001210; US 2001273944 20010307; US 2001312677 20010815; US 2001318839 20010913

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DE GB

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

Main International Patent Class (v7): **E05C-003/06**

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 17980

#### English Abstract

The present invention relates to a latching device (10) for securing two panels together such as those of storage structures in which an enclosure is secured by a door or panel which will remain in a closed position until released. The present latching system is usually used in connection with automobile glove boxes or other compartments which are to be secured for storage of items therein. The latching device has a housing (12) actuation member (1102) and a pawl (14) in communication with a moveable retention member (28). The latching device can be electrically or manually operated.

#### French Abstract

La presente invention concerne un dispositif de verrouillage permettant de fixer solidement deux panneaux entre eux, tels que ceux des structures de rangement dans lesquelles un logement clos est verrouille au moyen d'une porte ou d'un panneau qui reste en position fermee jusqu'a sa liberation. Le present systeme de verrouillage est generalement utilise pour des boites a gants d'automobile ou d'autres compartiments devant etre verrouilles pour permettre d'y ranger des articles. Le systeme de verrouillage comporte un logement, des moyens d'actionnement et un cliquet en communication avec un moyen de retenue mobile. Le systeme de verrouillage peut fonctionner de maniere electrique ou manuelle.

#### Legal Status (Type, Date, Text)

Publication 20020510 A2 Without international search report and to be republished upon receipt of that report.  
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Fulltext Availability:

Detailed Description

#### Detailed Description

... can be assembled by first snap-fit placing the pawls 2500, 2600 and pawl torsional **springs** 2700, 2800 into the corresponding pawl pivot recesses 2272, 2274 of the latch housing 2200...distance, the keeper rod will pass below the forward pointing portion of each of the **hook** -shaped structures 2208, 2210 and come into engagement with each of the pawls 2500...

...along with the engaged catch beam 2300, back toward the second end 2204 of the **latch** housing 2200.

Suitable mounting means are provided to retain the **latch** assembly 2100 on a panel or mounting surface (not shown). For example, as shown in Fig. 98, installation of the **latch** assembly 2100 to a panel may be accomplished by snap-fit placement of the **latch** assembly 2100 into **hooks** 2104 and the like that are positioned on the panel, such as for example, a glove box door 2102 of an automobile. Alternatively, installation of the **latch** assembly 2100 to a panel may be accomplished with fasteners, such as screws or pins, which pass through holes for fastening of the **latch** assembly 2100 to the panel.

The **latch** assembly 2100 also has some additional features which enhance its resistance to tampering. Since the **latch** assembly 2100 is designed without access holes or openings, opportunity for unauthorized access to the **latch** assembly 2100 is reduced. Also, the pair of pawls 2500, 2600 provide additional strength to the **latch** assembly 2100 such that opportunity for unauthorized access to the **latch** assembly 2100 is reduced.

Another embodiment of the **latch** in accordance with the present invention is illustrated in Figs. 113 through 161. The **latch** 3100 in the present embodiment is similar in both structure and function to many of...

...solenoid assembly 3400, a pair of pawls 3500, 3600, and a pair of pawl torsion **springs** 3700, 3800.

1 5 As shown in Figs. 1 13-125 and 128-137, an...

**22/5,K/24** (Item 24 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00899182 \*\*Image available\*\*

**MULTIPOINT LOCK SYSTEM**

**SYSTEME DE SERRURE MULTIPOINT**

Patent Applicant/Assignee:

TRUTH HARDWARE CORPORATION, 700 West Bridge Street, Owatonna, MN 55060,  
US, US (Residence), US (Nationality), (For all designated states  
except: US)

Patent Applicant/Inventor:

BECKEN Donald A, 2928 North Buena Vista Street, Burbank, CA 91504, US, US  
(Residence), US (Nationality), (Designated only for: US)

Legal Representative:

LUROSSO Anthony M (agent), Lorusso & Loud, 440 Commercial Street, Boston,  
MA 02109, US,

Patent and Priority Information (Country, Number, Date):

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Application: WO 2001US45585 20011019 (PCT/WO US0145585)

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AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ  
EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR  
LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL  
TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class (v7): **E05C-009/12**

Publication Language: English

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Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 12704

**English Abstract**

A multipoint lock system is disclosed for use with the active and inactive doors of two-door sets, which provides an operator with the ability to lock or unlock a plurality of locking points both manually and automatically, and features a blocking mechanism to prevent unwanted locking. The system comprises a pair of releasably engaged mechanisms (100, 200), one of which primarily controls the deployment of the locking members, while the other primarily controls the receiving windows that receive the locking members. Each mechanism is operated by a lever and thumbturn (32, 34 and 42, 44 respectively) attached to a centralized cassette, which houses the core actuating means for the entire lock system.

#### French Abstract

L'invention concerne un systeme de serrure multipoint utilisable sur les portes actives et inactives de jeux de doubles portes, permettant a un utilisateur de verrouiller ou de deverrouiller une pluralite de points de verrouillage a la fois manuellement et automatiquement et comprenant un mecanisme de blocage empechant un verrouillage non desire. Le systeme selon l'invention comprend deux mecanismes s'enclenchant de facon liberable, l'un d'eux commandant principalement le deploiement des organes de verrouillage alors que l'autre commande principalement les fenetres de reception qui recoivent les organes de verrouillage. Chaque mecanisme est actionne par une gorge et une barrette tournante reliees a une cassette centralisee qui contient les moyens d'actionnement de noyau pour tout le systeme de serrure.

#### Legal Status (Type, Date, Text)

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Main International Patent Class (v7): **E05C-009/12**

#### Fulltext Availability:

Detailed Description

#### Detailed Description

... first input device or handle 32 inserted into the latching member hub 107, to be **moved** in a first direction, which can be either upward or downward depending on the embodiment...

...the first cassette 102 allowing the remote locking points 161 (deadbolt lock 181 or tongue **lock** 171) and 191 (shootbolt) to be retracted.

1 5 **Latching** and **locking** of the inactive and active doors 30,40 via the automatic function is accomplished by simply closing the doors and making contact with the jamb. The **latching** member or latchbolt 104 will penetrate the corresponding receiver window 204 of the second **lock** mechanism 200. When the door is in the nearly completely closed position, the remote sensor **triggers** 154 and 155 will contact the sensor pads 254, 255 (354,355 if an astragal is used) positioned at corresponding points along the second **lock** mechanism 200, which in turn displaces the slide **hooks** 159 from the **hook** slots 163. This displacement releases the **spring** loaded sensor slides 152 and 153 of the sensor- **trigger** mechanisms 150,151, which in turn drives the attached primary remote slides 148 and 149 forward (away from

28  
the first cassette 102), which further in turn deploys the remote **locking** points 160,161,190, and 191.

In the event the remote **locking** points 160,161,190,191 do not deploy automatically and to their full extent, a...

...direction, will operate the automatic function of the system 10, which manually deploys the remote **locking** points 160,161 to the fullest extent possible. If however, movement in the second direction fully deploy the primary remote **locking** points, in this case shootbolts 190,11 91 , should they have met some resistance.

At...

...or any other exposed surface. Hence, the only way the deadbolt 112 may be retracted/ **moved** is by rotating the thurnbturn 34. It should be noted that the deadbolt 112 may...



WEINSTEIN Sara G, 8224 West 9th Street, Overland Park, KS 66212, US  
Legal Representative:  
COLLINS John M, Hovey, Williams, Timmons & Collins, Suite 400, 2405 Grand  
Boulevard, Kansas City, MO 64108, US  
Patent and Priority Information (Country, Number, Date):  
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Priority Application: US 99330683 19990611  
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AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM EE ES FI GB  
GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA  
MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA  
UG UZ VN YU ZA ZW  
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE  
(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG  
(AP) GH GM KE LS MW SD SL SZ TZ UG ZW  
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Fulltext Availability:  
Detailed Description  
Claims  
Fulltext Word Count: 4799

#### English Abstract

A compact, lightweight latch (38) especially adapted for use which an emergency deployment oxygen mask container (20) is provided which made up of a minimum of parts and which can be delatched in multiple ways. The latch (38) includes a latch assembly (40) designed to be mounted in the oxygen mask container box (22) and a cooperating latch pin (44) secured to a cover (24). The assembly (40) has a primary latch body (46) supporting a diaphragm (48), latch member (50) and shiftable piston (52); the latch member (50) includes a plurality of laterally displaceable, hook-shaped locking legs (86) configured to interfit with latch pin (44). The piston (52) is shiftable in opposite axial directions within latch member (52), and cooperating surfaces on the member (50) and piston (52) serve to positively displace the latching legs (86) in response to piston movement. During pneumatic operation, the piston (52) is shifted within latch member (50) under the influence of diaphragm (48). The latching member (50), piston (52) and latch pin (44) are preferably in substantial axial alignment, and a passageway (116) in the latch pin (44) allows use of push or pull rods (126, 128) for manual delatching.

#### French Abstract

L'invention concerne un verrou (38) compact léger convenant spécialement a un recipient (20) de masque a oxygene a deploiement d'urgence. Ce verrou comporte un nombre de composants minimal et peut etre ouvert de multiples facons. Le verrou (38) comprend un ensemble (40) de verrouillage concu pour etre monte dans une boite (22) recevant le masque a oxygene et un axe (44) de verrouillage concourant fixe sur le couvercle (24). Cet ensemble (40) comprend un corps (46) de verrou principal qui recoit un diaphragme (48) et un piston (52) capable de se deplacer. L'organe (50) de verrouillage comprend plusieurs elements (86) de verrouillage en forme de crochets a deplacement lateral, formes de maniere a venir s'appliquer contre l'axe (44) de verrouillage. Le piston (52) peut se deplacer dans des directions axiales opposees a l'interieur de l'organe (52) de verrouillage, et des surfaces cooperantes de cet organe (50) et du piston (52) provoquent un deplacement positif des elements (86) de verrouillage en reponse au mouvement du piston. Sous l'effet de la pression pneumatique, le piston (52) se deplace a l'interieur de l'organe (50) de verrouillage, pousse par le diaphragme (48). L'organe (50) de verrouillage, le piston (52) et l'axe (44) de

verrouillage sont de preference sensiblement alignes dans une direction axiale, et un passage (116) dans l'axe (44) de verrouillage permet d'utiliser des tiges (126, 128) de pousse ou de traction pour une ouverture manuelle.

Legal Status (Type, Date, Text)

Publication 20001221 A1 With international search report.

Examination 20010412 Request for preliminary examination prior to end of 19th month from priority date

Main International Patent Class (v7): **E05C-007/00**

Fulltext Availability:

Detailed Description

Detailed Description

... clip and an actuator, where a latch pin is squeezed into the clip and is **released** when enough upward force is applied to the latch pin. This mechanism relies upon the...

...and a release position, together with a piston shiftable in opposite directions relative to the **latch** member. The overall mechanism also has a **latch** pin adapted for mounting on the other of the components and normally interfitted with the displaceable **latch** element for releasably **latching** the two components together. In preferred forms, the **latch** member, piston and **latch** pin are substantially coaxially aligned, and the piston includes structure oriented to positively displace the **latch** element from its **latching** to its release position during shifting of the piston in either of its movement directions.

I 0 Preferably, the **latch** member is of elongated, tubular design and includes a plurality of **latch** elements in the form of elongated, laterally displaceable **latching** legs each equipped with a **hook**-shaped end engageable with the **latch** pin. Similarly, the ...surfaces so that, 1 5 upon movement of the piston in either axial direction, the **latching** legs are displaced laterally so as to effect delatching.

The **latch** mechanism is normally operated pneumatically, although in alternative designs, various operating mechanisms can be adopted...

...here two) of deployable oxygen masks 28 normally retained therein but which can be readily **removed** when cover 24 is opened; for example, when the container 20 is mounted in overhead...

22/5,K/29 (Item 29 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00461430 \*\*Image available\*\*

**LOCKING SQUEEZE-OFF CLAMP**

**PINCE-ETAU AVEC MECANISME DE VERROUILLAGE**

Patent Applicant/Assignee:

TIMBERLINE TOOL AND CASTING,

COLLISTER Richard L Jr,

GREEN Kenneth H,

Inventor(s):

COLLISTER Richard L Jr,

GREEN Kenneth H,

Patent and Priority Information (Country, Number, Date):

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Priority Application: US 9746759 19970516

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CN DE KR

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Claims

Fulltext Word Count: 22961

English Abstract

A vehicle door latch assembly including a pivotal rotor (30) engageable with a striker pin (26). A pawl (46) is moveable between a blocking position retaining the rotor (30) in engagement with the striker pin (26), and a release position permitting the rotor (30) to disengage the striker pin (26). A link (54) is moveable, manually or by means of an electric motor, between a coupled position engaging the pawl (46) and an uncoupled position disengaged from the pawl (46). The link (54) also engages an actuator member (38) when the link (54) is in the coupled position and is disengaged from the actuator member (38) in the uncoupled position. The actuator member (38) may be operated when the link (54) is in the coupled position, to move the pawl (46) to the release position by means of the link (54).

French Abstract

Cette invention concerne un systeme de serrure pour portiere de vehicule, lequel systeme comprend un rotor pivotant (30) entrant en contact avec un percuteur (26). Un cliquet (46) peut passer d'une position de blocage maintenant le rotor (30) en contact avec le percuteur (26), a une position de deblocage dans laquelle le rotor (30) et le percuteur (26) ne sont plus associes. Un element de liaison (54) peut etre deplace, manuellement ou a l'aide d'un moteur electrique, entre une position de couplage ou le cliquet (46) est enclenche, et une position de desaccouplement ou ledit cliquet (46) n'est pas enclenche. Cet element de liaison (54) entre egalement en contact avec un element d'actionnement (38) lorsqu'il se trouve dans la position de couplage, et reste libre par rapport a cet element d'actionnement (38) en position de desaccouplement. L'element d'actionnement (38) peut etre actionne lorsque l'element de liaison (54) est en position de couplage, ceci de maniere a faire passer le cliquet (46) en position de deblocage grace audit element de liaison (54).

Main International Patent Class (v7): **E05C-003/16**

Fulltext Availability:

Detailed Description

Detailed Description

... above.



Consequently, the rotor 68 rotates from the first position to a second position. The **shaft** 62 rotates therewith, pivoting the link 54 to the coupled position. The windings 76 may...

...lower end 92a

of the armature 92 may be tapered into a point.

A compression **spring** 94 is interposed between the armature 92 and the flange 90. The **spring** 94 urges the armature 92 downwardly in the sleeve 86. The lower end 92a

is...

...extending ridges 96 formed on the upper surface of the flange 65 cooperate with the **spring** loaded armature 92 to prevent relative rotation between the stator 72 and the shaft 62...

...and is thus prevented from rotation by the action of the detent 82.

A manual **locking** mechanism (not shown), such as an inside door sill **button** or an exterior key cylinder, may be directly coupled to the link 54 to permit...

...move the link 54 to the coupled and uncoupled positions. Preferably, however, such a manual **locking** mechanism will be coupled to cause the shaft 62 to rotate. A feature such as...

...or tab 98 is provided on the flange 65, by means of which the manual **locking** mechanism is operatively coupled to rotate the shaft 62, and thus the link 54.

Referring now to Fig. 4, the operation of the **latch** assembly 20 will now be explained. The **latch** assembly 20 is illustrated therein in a **latched** and unlocked condition.

The rotor 30 is oriented such that the notch 32 is generally...

...to capture the striker bolt 26 at the inner end of the notch 24.

The **hook** 48 on the pawl 46 engages the retaining step 34 on the rotor 30, thereby preventing the rotor 30 from pivoting to release the striker bolt 26. The **spring** 52 (Fig. 1) urges the pawl 46 to remain in the illustrated blocking position, engaged...

...in the unactuated position. The link 54 is illustrated in the coupled position, with the **hook** 56 on one end thereof engaging the tab 40 of the actuator member 38, and...

...other end thereof engaging the bearing surface 50 of the pawl 46.

To unlatch the **latch** assembly 20, the vehicle's **latch** actuating mechanism (for example, a door handle) coupled to the tab 42 of the actuator...the notch 32--aligned with the notch 24,

The latch actuating mechanism may then be **released** by the operator to permit the actuator member 38 to be rotated back to the...with the

retaining step 234 on the rotor 230, thereby preventing the rotor 230 from **pivoting** to release the striker bolt 226. The link ...against the flange 218d, and further rightward motion of the cable core 284a compresses the **spring** pack 284b. As the **spring** pack 284b is compressed, the flange of the barrel 284e bears against the interior release...

...to the actuated position thereof.

When the interior operating handle (not shown) is released, the **spring** pack 284b expands, drawing the cable core 284a to the left. The barrel 284f bears...

...thereof, and  
permitting the actuator member 238 to return to the unactuated position thereof,  
The **latch** assembly 201 may be locked from the interior of the vehicle, from the exterior of...

...thereof  
cannot be engaged by the tab 238b of the actuator member 238. Additionally, the **hook** 210b is preferably disengaged from the pin 250 of the pawl 246 in the unlock position. To lock the **latch** assembly 201 from the interior of the vehicle, interior locking mechanism (such as a sill **button** - not shown) is operated to cause the cable core 284a of the Bowden cable 284...

...During  
the first half of the movement of the interior lock lever 254, the overcenter **spring** 255 (Fig, 8) is compressed, and opposes the motion of the interior lock lever 254...

...passes the midpoint of travel  
between the unlock and the lock positions thereof, the overcenter **spring** 255 switches from opposing the motion of the interior lock lever 254 to aiding the motion as the overcenter **spring** 255 expands.

Movement of the interior lock lever 254 to the lock position causes the...

...263a of the  
index member 263. Movement of the lock/unlock lever 265 to the **lock** position thus causes the link 210 to rotate to the **lock** position. Additionally, the movement of the **lock** /unlock lever 265 causes the exterior **lock** fork 265 to reposition from the unlock position to the **lock** position thereof (Fig. 11).

To lock the latch assembly 201 from the exterior of the...position. The overcenter spring 255 thus acts to prevent the latch assembly 201 from inadvertently **moving** to the unlock position, which might otherwise occur, for example, due to vibrations experienced by...

22/5,K/32 (Item 32 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00339926 \*\*Image available\*\*

**A DOOR LOCK**

**SERRURE DE PORTE**

Patent Applicant/Assignee:

ASSA AB,

Inventor(s):

HIRVI Jorma,

NYSTROM Lars-Ake,

JOHANSSON Roger,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9622438 A1 19960725

○

SAMSONITE CORPORATION,  
Inventor(s):

VAN HOOREWEDER Godwin,  
CASTELLI Renato,  
HESSE Klaus-Diether,  
RASCH Ulf,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9208386 A1 19920529

Application: WO 91US8650 19911115 (PCT/WO US9108650)

Priority Application: US 90336 19901116

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AT AU BE BR CA CH DE DK ES FI FR GB GR HU IT JP KR LU NL NO SE SU

Main International Patent Class (v7): A45C-013/10

International Patent Class (v7): **E05B-65:52**

Publication Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 4021

#### English Abstract

A latch hook operating system includes an operating arm (15) which can be moved out of possible engagement with the latching system by the lock (either key or combination) (9 or 7) pushing lightly to laterally displace the operating arm (15) against the slight spring bias of a torsional spring (18) provided on the operating arm (15). Also, the latch hook mechanism is provided with a pop-up (22) which, in addition to its normal case opening function, also includes a cam (25) which engages the latch hook (20) and holds the latch hook (20) in a cocked condition until the pop-up (22) is pushed downward slightly by the lid (3) of the case. Thus, the lid (3) releases the latch hook (20) and permits it to engage a lip portion (54) of a strike plate (50) contained in the lid (3) of the case.

#### French Abstract

Un systeme commandant un crochet de verrouillage comprend un bras de commande (15) pouvant etre desencliquete du systeme de verrouillage par une legere poussee de la serrure (soit a cle soit a combinaison) (9 ou 7) afin de deplacer lateralement le bras de commande (15) contre la legere sollicitation d'un ressort a torsion (18) menage sur le bras de commande (15). De plus, le mecanisme du crochet de verrouillage est dote d'un element saillant (22) lequel, outre sa fonction normale d'ouverture de la valise, comprend egalement une came (25) s'engageant dans le crochet de verrouillage (20) et maintenant ce dernier (20) en position armee jusqu'a ce que l'element saillant (22) soit pousse legerement vers le bas par le couvercle (3) de la valise. Ainsi, le couvercle (3) libere le crochet de verrouillage (20) et lui permet de se positionner sur une partie de rebord (54) d'une gache (50) contenue dans le couvercle (3) de la valise.

International Patent Class (v7): **E05B-65:52**

Fulltext Availability:

Detailed Description

#### Detailed Description

##### **LATCHING AND LOCKING SYSTEM FOR LUGGAGE**

Background of the Invention

This invention relates to a latching...

...when their respective operating buttons are released and the spring

.2

bias permits the latch **hooks** to return to their latched position.

Without the pop-ups, the latch **hooks** would again engage the lip of their corresponding cavities and the case would again be locked.

When closing the lid in such **latching** operations, the operator pushes down on the lid to overcome the spring bias of the pop-ups. The upper edge of each **latch hook** has a sloped cam surface. The lip of the respective cavity engages this cam surface to force each **latch hook** simultaneously back against its normal spring bias. When the lid of the case is substantially closed, the **latch hook** moves past the lip and springs into its **latched** condition.

The **latch hook** arrangement just described is fairly simple and quite dependable.

I 0 The provision of the...

...there are usually at least two such pop-ups) and the spring bias of each **latch hook**.

Usually, luggage cases with the **latching** system described above include a lock (either key operated or combination type operated by a **releasing** a lid of a luggage case to the base of the luggage case. This system...

22/5,K/35 (Item 35 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00141424

**COMBINATION/ELECTRONIC LOCK SYSTEM**

**SYSTEME DE SERRURE ELECTRONIQUE/A COMBINAISON**

Patent Applicant/Assignee:

SUPRA PRODUCTS INC,

Inventor(s):

LARSON Wayne F,

Patent and Priority Information (Country, Number, Date):

Patent: WO 8706295 A1 19871022

Application: WO 87US707 19870331 (PCT/WO US8700707)

Priority Application: US 86285 19860410; US 86806 19861229

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AT BE CH DE FR GB IT JP LU NL SE

Main International Patent Class (v7): **E05B-047/06**

Publication Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 3783

English Abstract

A lock mechanism having a mechanical combination lock and an electronic lock, wherein the mechanical combination lock serves for effecting a fail safe entry in case of failure of the electronic lock. More specifically, the lock mechanism includes a mechanical combination lock having a bolt-retracting linkage (145) which is tripped by inward movement of a dial into a first operative relationship with a driver on the drive spindle. An electronic latch prevents bolt retraction by this bolt-retracting linkage when in the first operative position until the electronic latch has been operated. However, when the tumblers of the lock have been aligned and a gate bar enters the tumblers, the bolt-retraction linkage is caused to assume a second operative relationship with the driver so as to permit bolt retraction despite the latching effect of the electronic lock.

French Abstract

Le mecanisme a serrure decrit se compose d'une serrure a combinaison

knob 42 which is pinned to...

...extends from the underside thereof and selectively lodges or is received in one of the **latch** detents 48, 50 depending on the selected position of the knob 42. The knob 42...locked and 1 1 unlocked modes. Referring to Figure 9, the pin 44 for the **knob** 42 is replaced by a shaft 62. The shaft 62 may be integral with the **knob** 42 or the **knob** may be fixed to the shaft. The shaft 62 includes a detent bore 64 to provide two detents 66, 68, 180 degrees apart on the shaft, one for holding the **knob** 42 in its locked setting and the other for holding the knob 42 in its...

...is specifically 1 located on the operating handle 23 to prevent the bar 28 from **pivoting** into position in which the bottom end 31 could jam against the post 38. Referring...

**22/5,K/30 (Item 30 from file: 349)**  
DIALOG(R)File 349:PCT FULLTEXT  
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00396833 \*\*Image available\*\*

**REMOVABLE GUIDE ASSEMBLY**

**ENSEMBLE GUIDE AMOVIBLE**

Patent Applicant/Assignee:

KOHLER CO,

Inventor(s):

KURTH Michael J,

FUNK David R,

TEDESCUCCI Joseph F,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9737576 A1 19971016

Application: WO 97US6011 19970404 (PCT/WO US9706011)

Priority Application: US 96629255 19960408

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GH HU  
IL IS JP KE KG KP KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL  
PT RO RU SD SE SG SI SK TJ TM TR TT UA UG UZ VN YU GH KE LS MW SD SZ UG  
AM AZ BY KG KZ MD RU TJ TM AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL  
PT SE BF BJ CF CG CI CM GA GN ML MR NE SN TD TG

Main International Patent Class (v7): A47K-003/22

International Patent Class (v7): **E05D-15:06**

Publication Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 3009

**English Abstract**

A removable guide assembly for a slidable panel which is retained in and released from a rail track (20) for the panel by a release mechanism composed of a button (64) activated spring clip (70). The removable guide is particularly suited for use with a double panel bathing shower door and includes a guide cushion (50) for placement between the panels. In a preferred embodiment, the removable guide assembly is connected to the rail track for the slidable panel by a hook and latch member (79).

**French Abstract**

L'invention concerne un ensemble guide amovible destine a un panneau coulissant qui est retenu dans et degage d'un rail (20) par un mecanisme de liberation constitue d'une pince a ressort (70) actionnee par un bouton (64). Ce guide amovible s'utilise notamment avec une porte de cabine de douche a double panneau et comprend un dispositif amortisseur



(50) place entre les panneaux. Dans un mode prefere de realisation, cet ensemble guide amovible est relie au rail du panneau coulissant par un element a crochet et loquet (79).

International Patent Class (v7): **E05D-15:06**

Fulltext Availability:

Detailed Description

Detailed Description

... the  
assembly and particularly the cushion 50. The shower  
doors 30 and 31 would be **moved** to a docking place to one  
side of the recess formed by walls 11, 12...

...then free to swing inward into the enclosure at  
their bottom to expose the entire **rail** track 20.

In order to reassemble the guide assembly onto the  
track in between the...

...doors. An  
advantage of the assembly is its efficient construction  
in that the rivet-like **fasteners** 67 are placed in the  
pockets 65 of the push **button** 64 without need of any  
special tools or equipment. Similarly, the **spring** 70 is  
connected to the **fasteners** 67 by a sliding action which  
engages the **hook** portion 72 in the compartments 76 and  
77. It also should be noted that the **latch bar** member 79  
is also easily assembled into the lower track 20 by  
frictional engagement between...

...desired,  
it could be pushed down through the opening 57 for  
removal. Further, while the **latch** member 79 is shown as  
a separate component for attachment to the track 20, it...

...a one-piece unit with the track. In  
addition, other means of removably activating the **spring**  
clip for detaching it from the latch **bar** 79 could be  
utilized in conjunction with the **button** 64 rather than  
the rivet-like **fasteners** 67. For example, a contacting  
surface between the push **button** and the **spring** clip could  
be used although this would not be as efficient. still  
further, while the...

...may not be as efficient in guiding  
the door panels. Still further, while the removable  
**guide** is used in conjunction with two door panels such as  
31 and 32, it could...

**22/5,K/31 (Item 31 from file: 349)**

DIALOG(R)File 349:PCT FULLTEXT

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00381154 \*\*Image available\*\*

**DOOR LATCH WITH DOUBLE LOCKING ANTITHEFT FEATURE**

**SERRURE DE PORTIERE ANTIVOL ET A DOUBLE VERROUILLAGE**

Patent Applicant/Assignee:

STONERIDGE INC,

Inventor(s):

JOHNSON James B,

BARTA Andrew J,

PETIK Michael A,

26/5,K/3 (Item 3 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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01281206 \*\*Image available\*\*

**IMPROVED LOOSE-LEAF BINDER**

**RELIURE A FEUILLETS MOBILES AMELIOREE**

Patent Applicant/Inventor:

CHIZMAR James S, 137 Sullivan Street, New York, New York 10012, US, US  
(Residence), US (Nationality)

Legal Representative:

ABATE Mark J (agent), Morgan & Finnegan, L.L.P., 3 World Financial  
Center, New York, New York 10281-2101, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200587509 A1 20050922 (WO 0587509)

Application: WO 2005US7619 20050307 (PCT/WO US05007619)

Priority Application: US 2004796634 20040308

Designated States:

(All protection types applied unless otherwise stated - for applications  
2004+)

AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM  
DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC  
LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NA NI NO NZ OM PG PH PL PT RO  
RU SC SD SE SG SK SL SM SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM  
ZW

(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LT LU MC NL PL  
PT RO SE SI SK TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) BW GH GM KE LS MW MZ NA SD SL SZ TZ UG ZM ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class (v7): **B42F-013/20**

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 40682

**English Abstract**

A binder (1) for releasably retaining loose-leaves. The binder has a front cover (44) that lies flatly beneath its back cover (40) when the binder is open 360 degrees. The rings (46) of the binder can rotate around an edge of the flatly-folded cover to enable loose-leaves to lie flat above and below the cover. The binder also has a skeleton (50) with a minimal cross-section spine which may be partially or completely embedded in a cover and rotates in relation to parallel front and back covers when the binder is open 360 degrees. The front cover, middle cover (42) and back cover are connected in a way so that they do not interfere with the rotation of the rings. Mechanisms to open and close the rings of the skeleton to allow addition or removal of loose-leaves, and ring shapes to optimize or stabilize the capacity of the binder during operation are also disclosed.

**French Abstract**

La presente invention a trait a une reliure (1) pour la retenue amovible de feuillets mobiles. La reliure comporte une couverture avant (44) sous-jacente a plat a la couverture arriere (40) lors de l'ouverture de la reliure a 360 degres. Les anneaux (46) de la reliure peuvent tourner autour du bord de la couverture repliee a plat pour permettre aux feuillets mobiles d'etre sus-jacents ou sous-jacents a plat a la couverture. La reliure comporte egalement un squelette (50) avec un dos de section transversale minimale qui peut etre partiellement ou entierement incorpore dans une couverture et qui tourne par rapport aux couvertures paralleles avant et arriere lors de l'ouverture de la reliure a 360 degres. La couverture avant, la couverture du milieu (42) et la

couverture arriere sont reliees de sorte qu'elles n'interferent pas avec la rotation de anneaux. L'invention a egalement trait a des mecanismes d'ouverture et de fermeture des anneaux du squelette permettant l'ajout ou le retrait de feuillets mobiles, et des formes annulaires pour l'optimisation ou la stabilisation de la capacite de la reliure en utilisation.

Legal Status (Type, Date, Text)

Publication 20050922 A1 With international search report.

Main International Patent Class (v7): **B42F-013/20**

Fulltext Availability:

Detailed Description

Detailed Description

... corresponding loop

35,

FIG, 26C shows the trunk-end of cable 34 attaches to pull **lock** 38 which has knob 38A. Pull-lock 38 is also attached to spring 36, Spring...

...to, or

integrally formed as a part of, rod 252 constrains one arm of torsion **spring** 97, while catch 98B which is attached to, or integrally formed as a part of, tube 254 constrains the other arm of torsion **spring** 97, Ledge 27A extends from rod 252 while ledge 27B extends from tube 254, Both...

*Too many  
connections  
components*

...kept in

contact with ledge 27A and ledge 27B via push rod 76 and torsion **spring** 97. Push rod 76 and push **button** 39 are on opposite ends of a two-state mechanical switch common to ball-point...

...point pens, this

two-state mechanical switch depends upon the constant resistance of a compression **spring**; in skeleton 250, the constant resistance is supplied by torsion **spring** 97 via linkages (rod 252 and ledges 27A and 27B) to wedge 26.

When push rod 76 is in the retracted position shown in FIG, 27A,, push **button** 39 is up and the rings are closed, When push 88

**button** 39 is depressed or clicked down, push rod 76 is pushed and locked into its...

...254

which causes ring segments 46A to open relative to ring segments 46B, Since push **rod** 76 is locked in place, ring segments 46A remained locked open relative to ring segments 46B as shown in FIG, 27B, When push **button** 39 is depressed a second time, it unlocks push **rod** 76 from its extended position allowing torsion **spring** 97 to act upon **rod** 252 and tube 254 to close ring segments 46A and ring segments 46B as well...

...FIG. 27A, As ledge 27A and ledge 27B close, they force wedge 26 and push **rod** 76 to their closed and retracted positions, respectively, and push **rod** 76 forces push **button** 39 to its original up position, Although FIGS. 27A and 27B show some components of...

...the

89  
synchronized switching element 351 of skeleton 350, Ring segments 46A are attached to **rod** 352 via weld, braze or other appropriate

means, Similarly, ring segments 46B are attached to...

...action causes rod 352 to rotate relative to tube 354 and is resisted by torsion **spring** 97. As rod 352 rotates relative to tube 354,, push button 139 is constrained to rotate in sync because of its tooth 93 within groove 94, but push **button** 139 is also pushed longitudinally towards rod 352 by a spiral section of ledge 96 that acts on pawl 95. The movement of push **button** 139 towards rod 352 causes the compression of **spring** 31 between push **button** 139 and stop 32, As rod 352 forces pawl 95 to rotate, pawl 95 is...

...96A,, slides over tooth 96C of ledge 96 and is forced into slot 96B by **spring** 31 thereby locking push **button** 139 in its extended state which corresponds to the open position of skeleton 350 as...

...96 and thus pawl 95 is able to resist the torsional closing force of torsion **spring** 97.

91

To close skeleton 350, push **button** 139 is pressed towards rod 352 against the resistance of **spring** 31. This action causes pawl 95 to move out of slot 96B and slide over...

...96C of ledge 96 where the pawl 95 is then forced into slot 96A by **spring** 31 which allows torsion **spring** 97 to act to close the rings 46 of skeleton 350, Torsion **spring** 97 twists catch 98A relative to catch 98B causing rod 352 to rotate relative...

...present invention via a small modification to the covers to allow access to the actuators: **knob** 38A, **button** 39 and **button** 139, This modification is simply a hole in the top and bottom edges of the...within pinhole 263A of capsule cylinder 285A as well as within hole 163C of torque **lever** 145A (FIGS. 37B and 38A-38B) and is **hooked** by one end of **spring** 83; pin 102B is **hooked** by the other end of **spring** 83 and is inserted within pinhole 263B of capsule segment 285B as well as within hole 163D of torque **lever** 145B, Spin cylinder 103A, slide cylinder 103B, and Capsule cylinder 285A are part of a...

...ballpoint pens, this two-state mechanical switch depends upon the constant resistance of a compression **spring** ; in skeleton 850, the constant resistance is supplied by tensile **spring** 83 via linkages (pins 102A-102B). Additionally, the characteristic push **button** cylinder of the ballpoint mechanism is adapted here to become slide cylinder 103B, which is pulled by pin 102B, This adaptation includes removing the portion of the push **button** cylinder that would protrude from the top of the ballpoint pen and adding the cylindrical...

...penetrates spin cylinder 103A and loops pin B (FIG, 38B) Instead of pressing a push **button** once to extend a ballpoint and a second time to retract it, ring segments 46A...

...850, middle rings 46A and 46B of skeleton 850 are pulled apart, which spreads torque **levers** 145A and 145B apart against the resistance of **springs** 83. Spreading torque **levers** 145A and 145B separates pins 102A and 102B so that pin 102D pulls slide cylinder...

...pulled far  
enough apart and released, spin cylinder 103A moves to its  
extended position to **lock** spreader 259 in its extended state  
under the force of spring 83. When spreader 259 is **locked** in  
its extended state between torque levers 145A and 145B, rings 46  
are kept open...  
...pulled apart far  
enough and released under the force of spring 83, spin cylinder  
103A **moves** to its retracted position enabling spreader 259 to  
retract as well such that capsule cylinder...